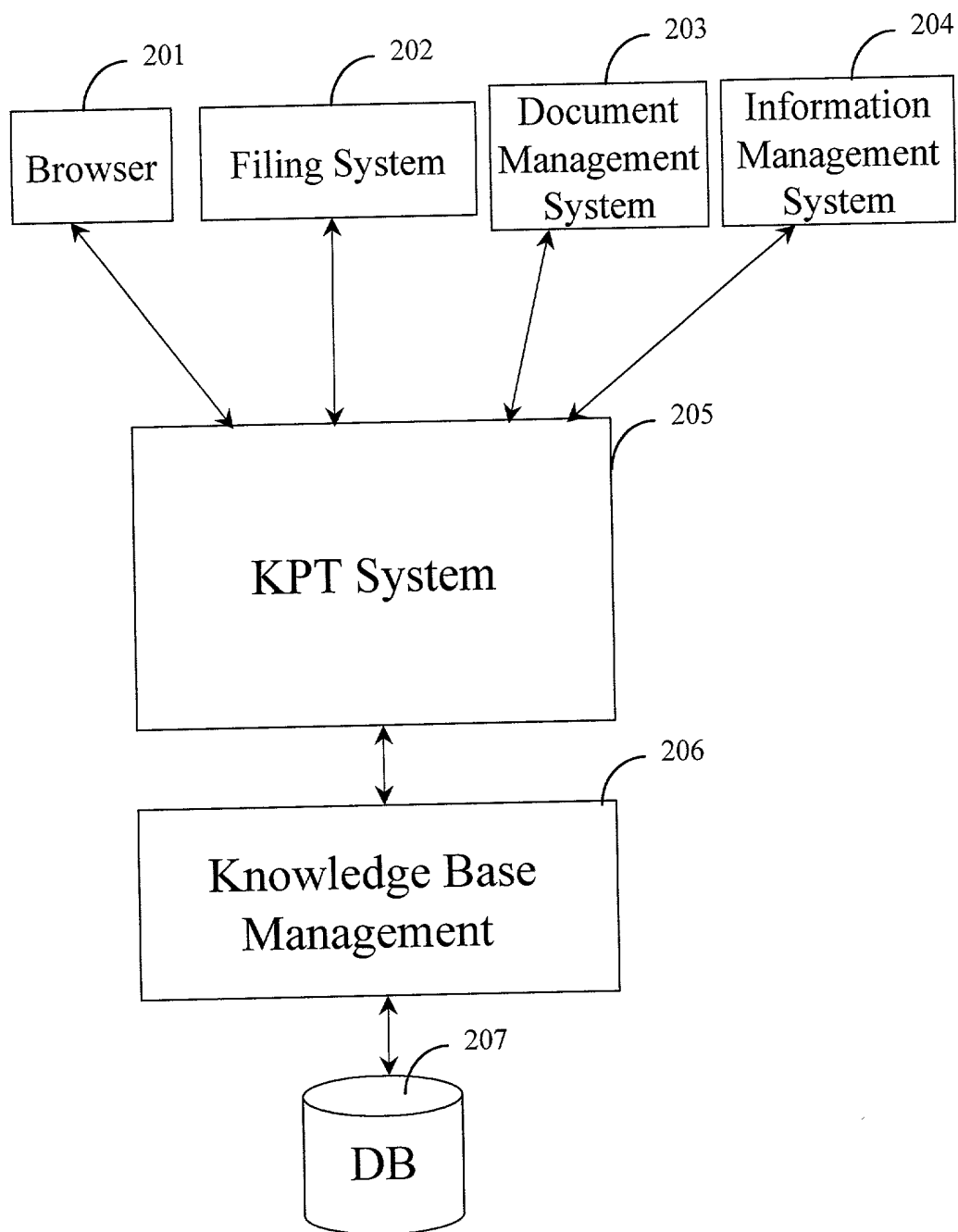


**FIG. 1**



**FIG. 2**

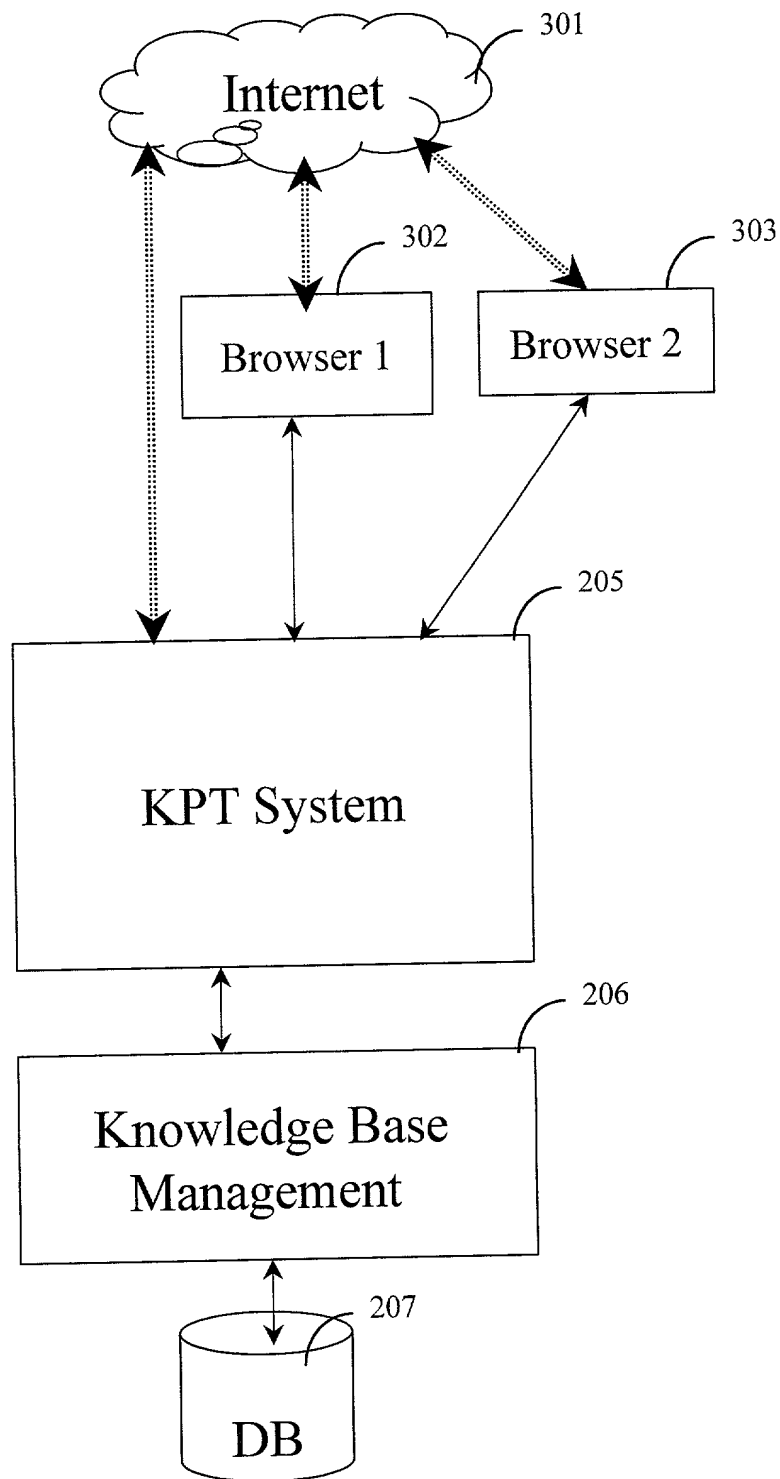
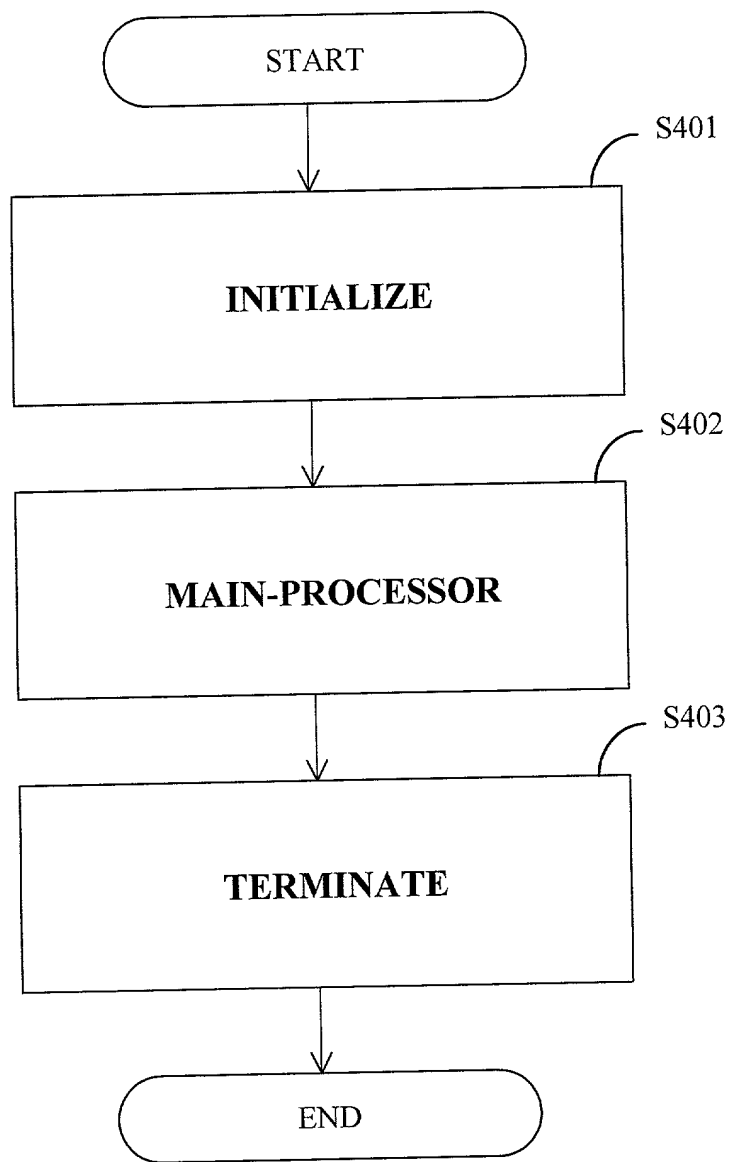
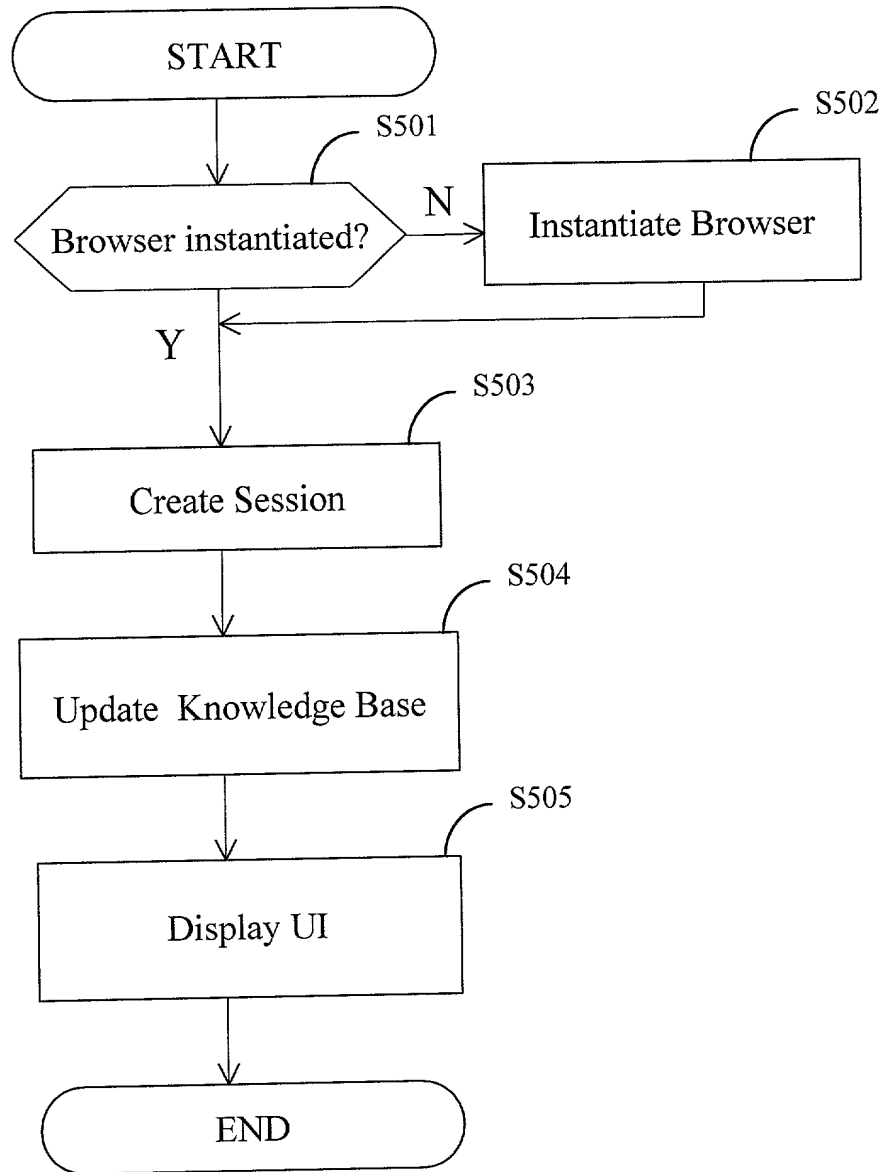


FIG. 3



**FIG. 4**



**FIG. 5**

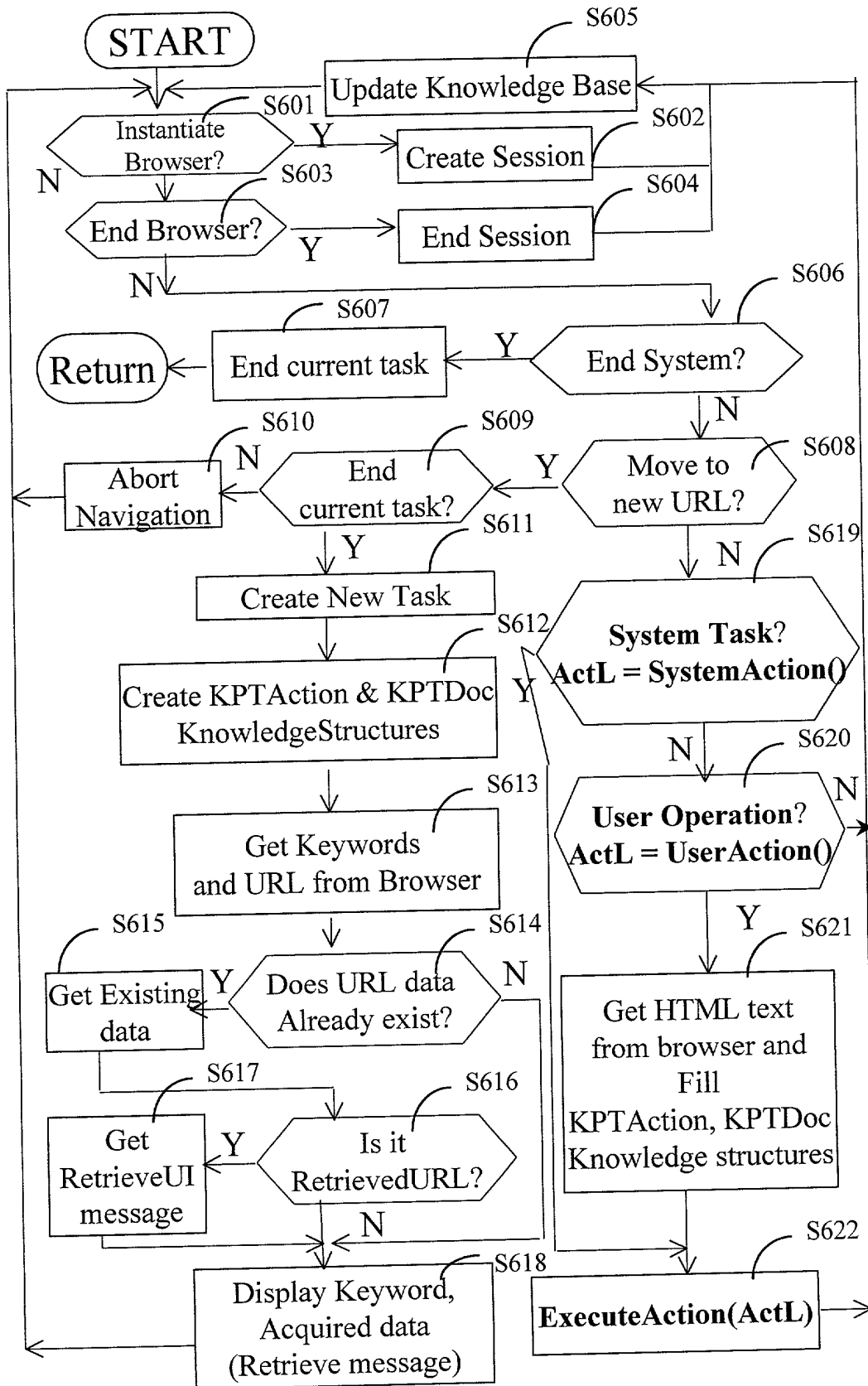


FIG. 6



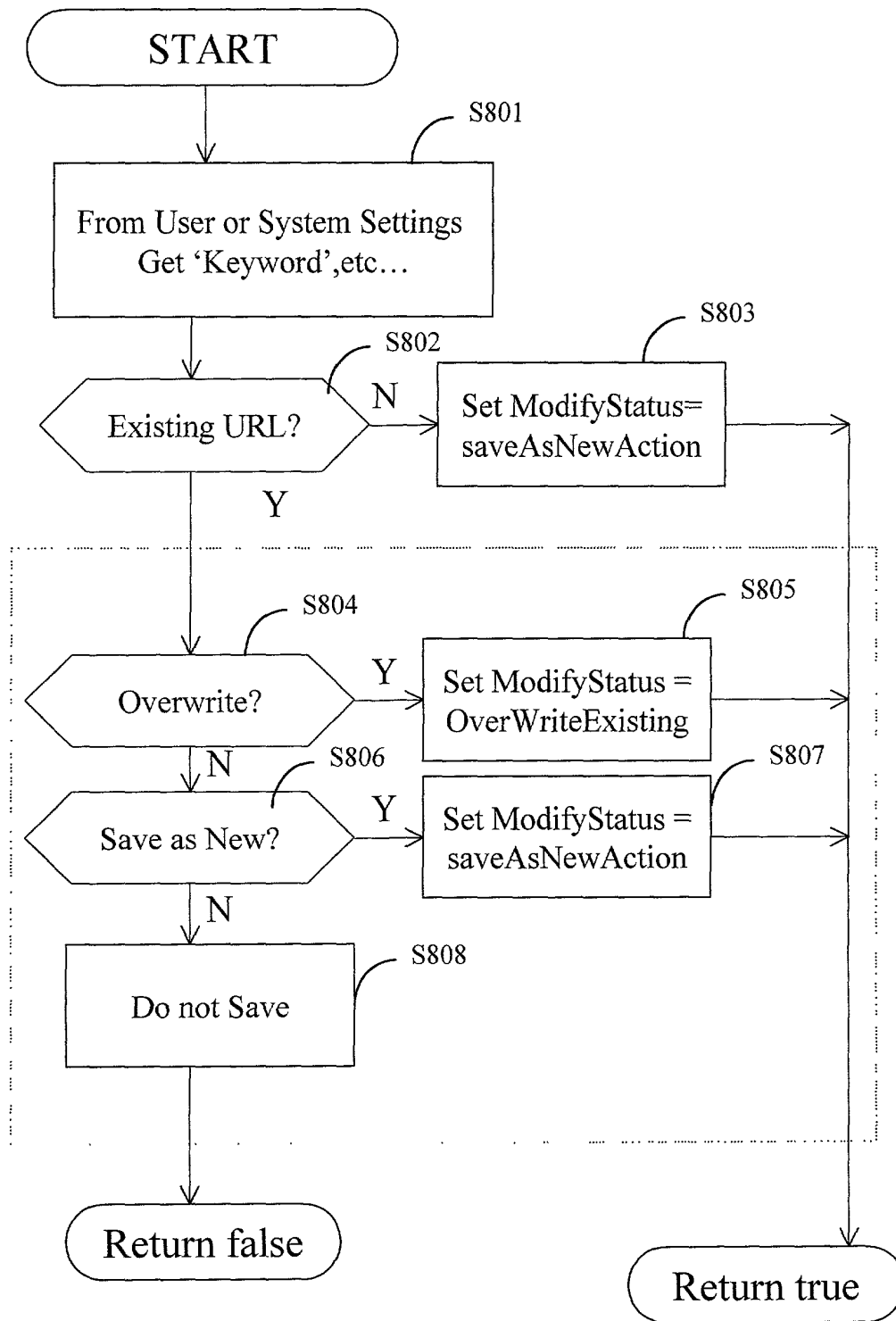


FIG. 8



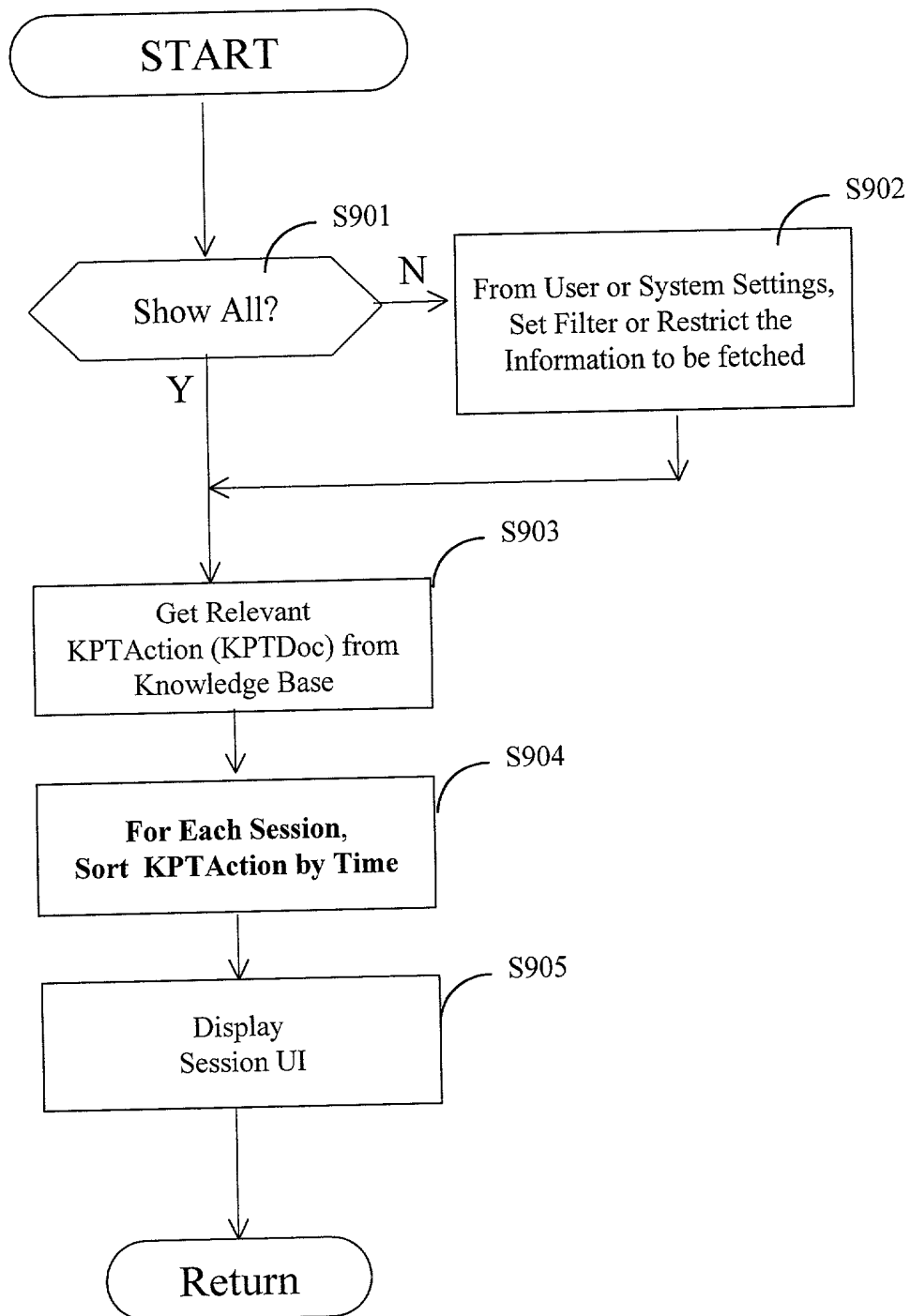


FIG. 9

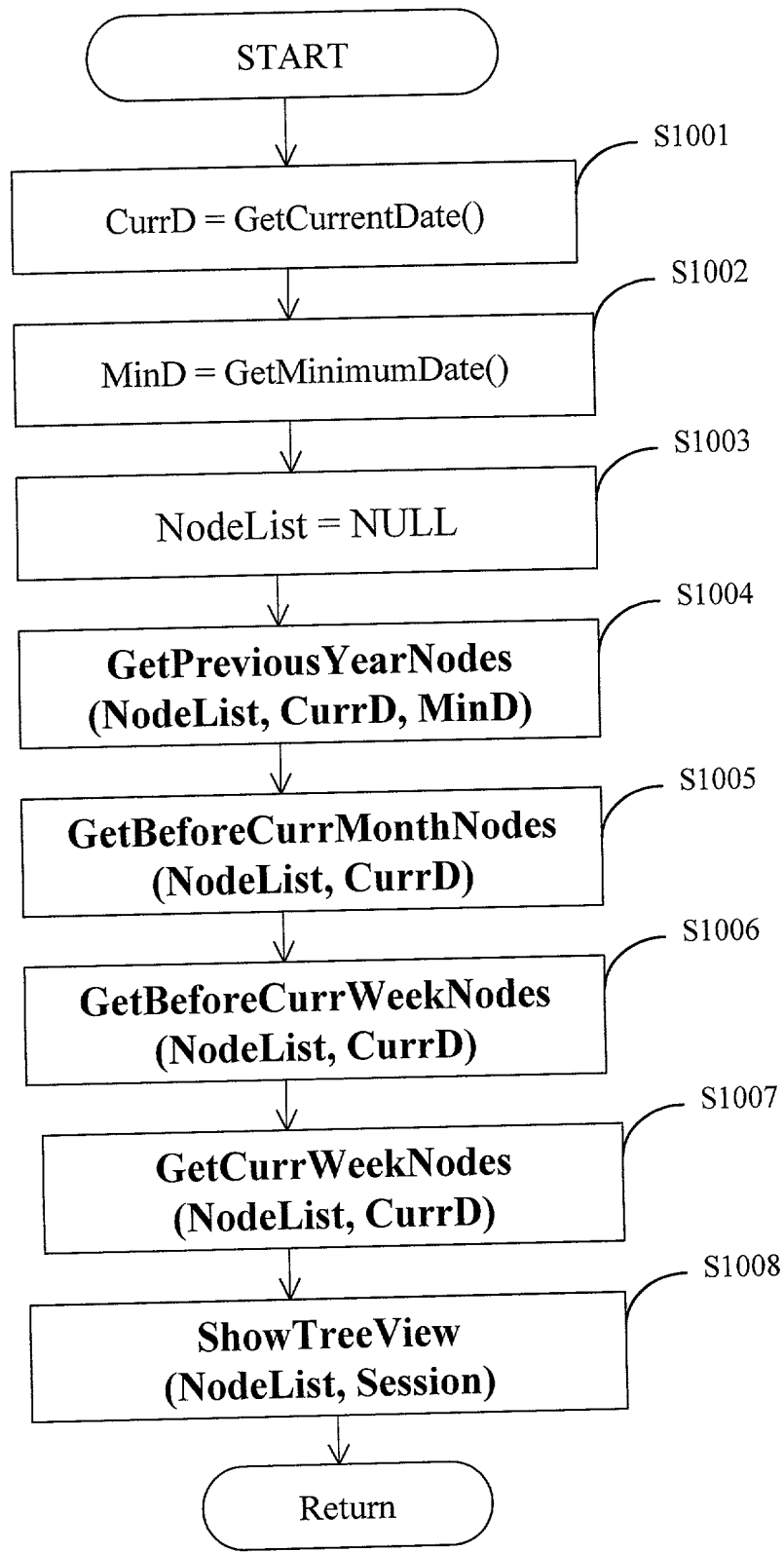


FIG. 10

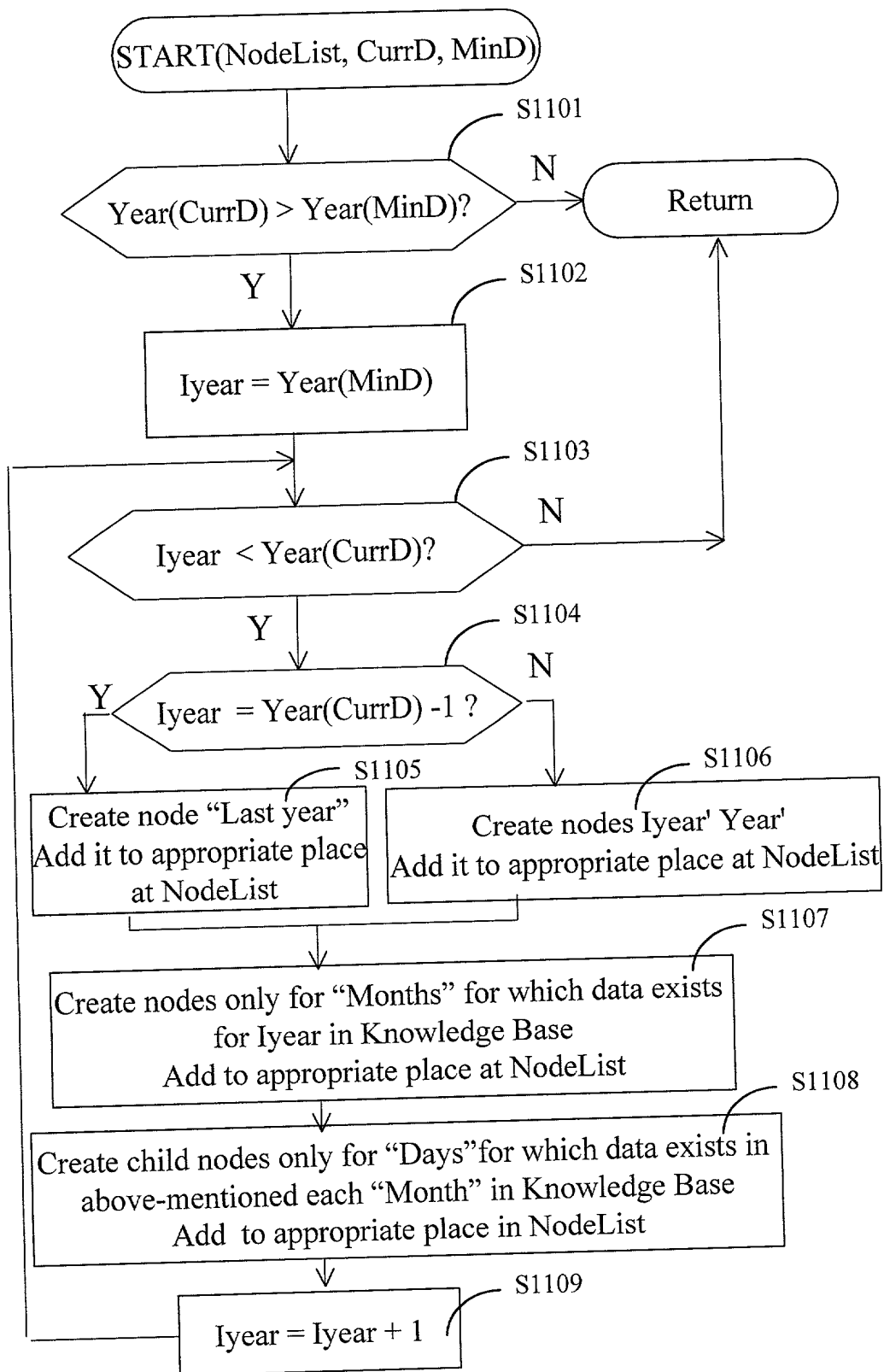


FIG. 11

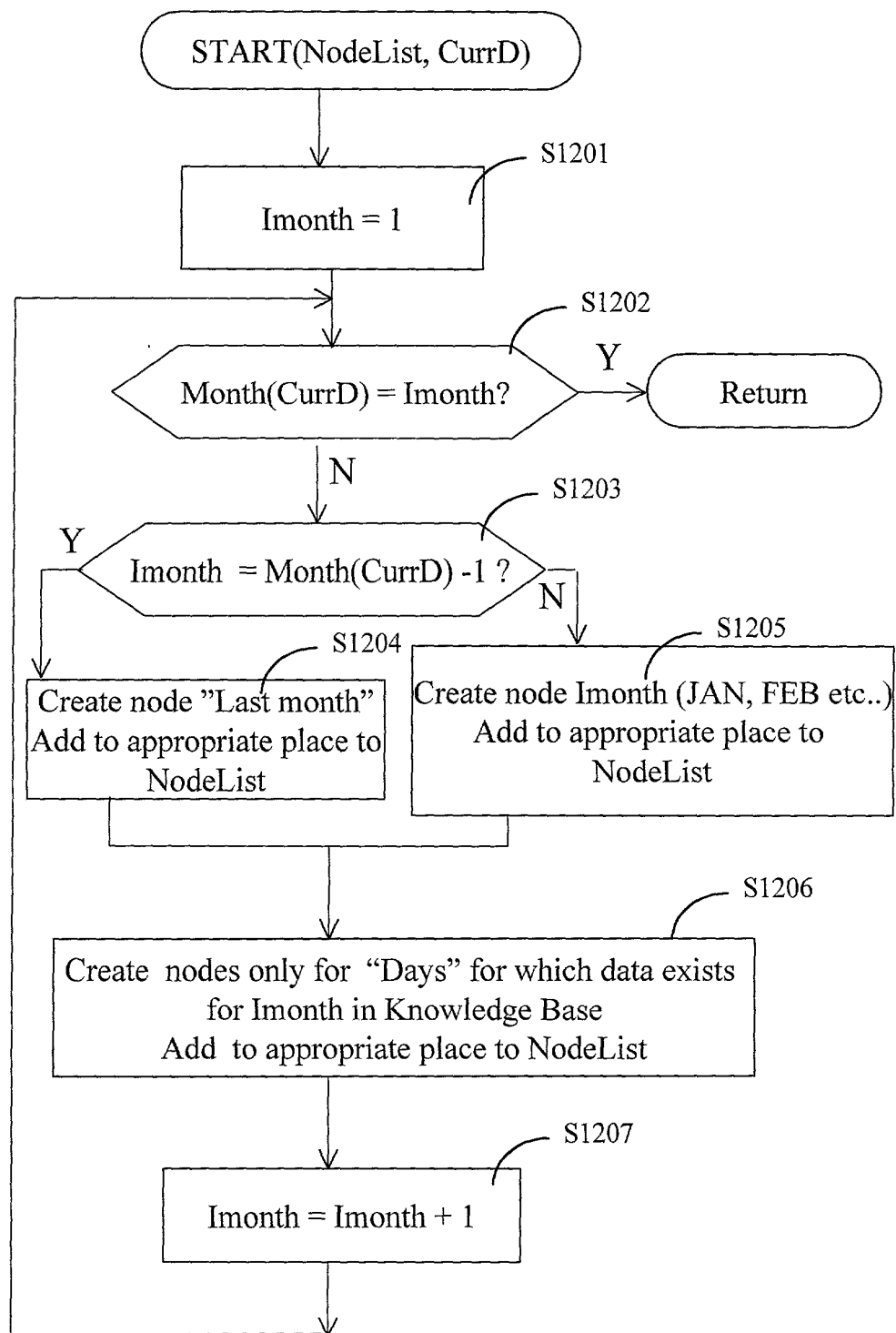


FIG. 12

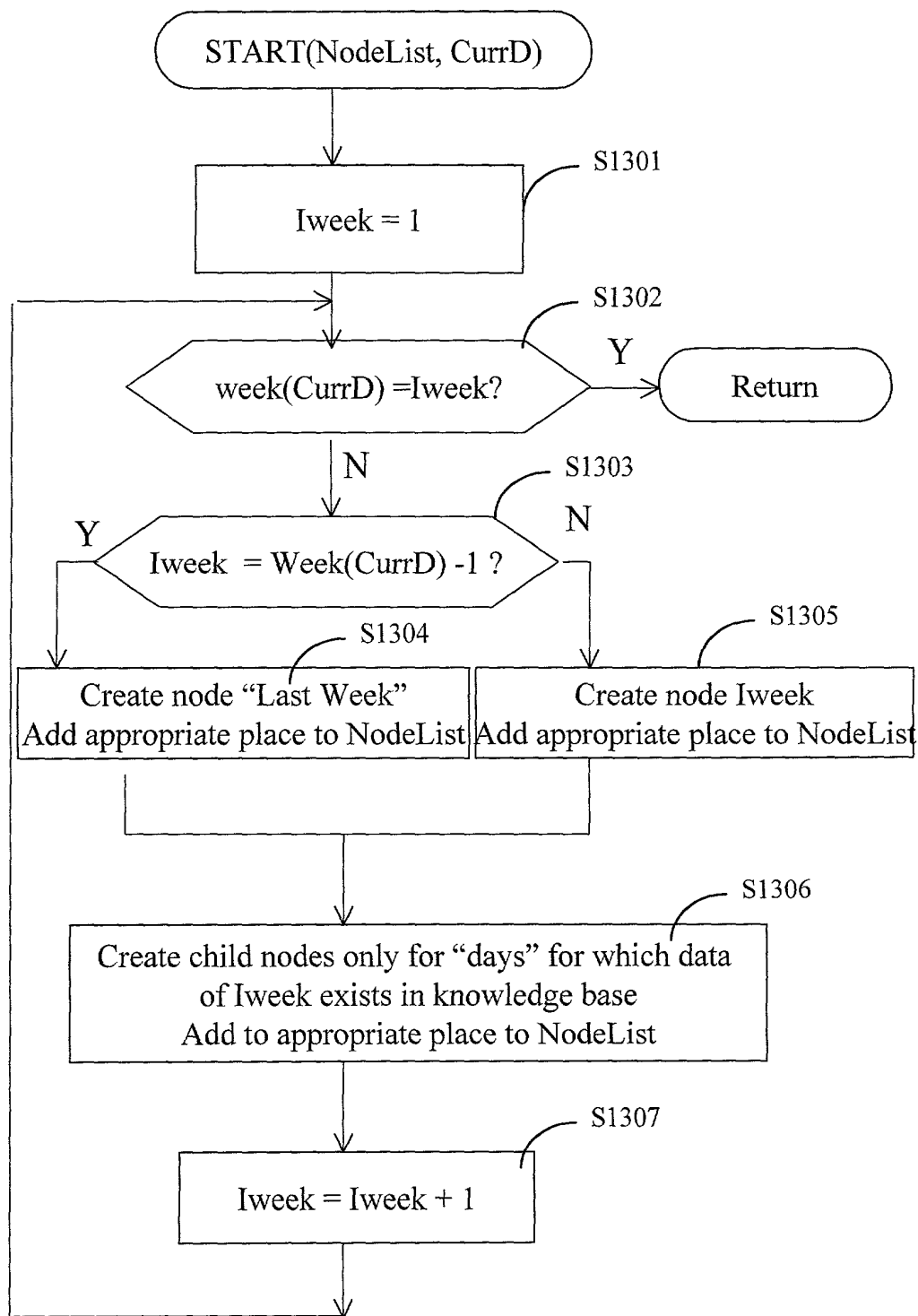


FIG. 13

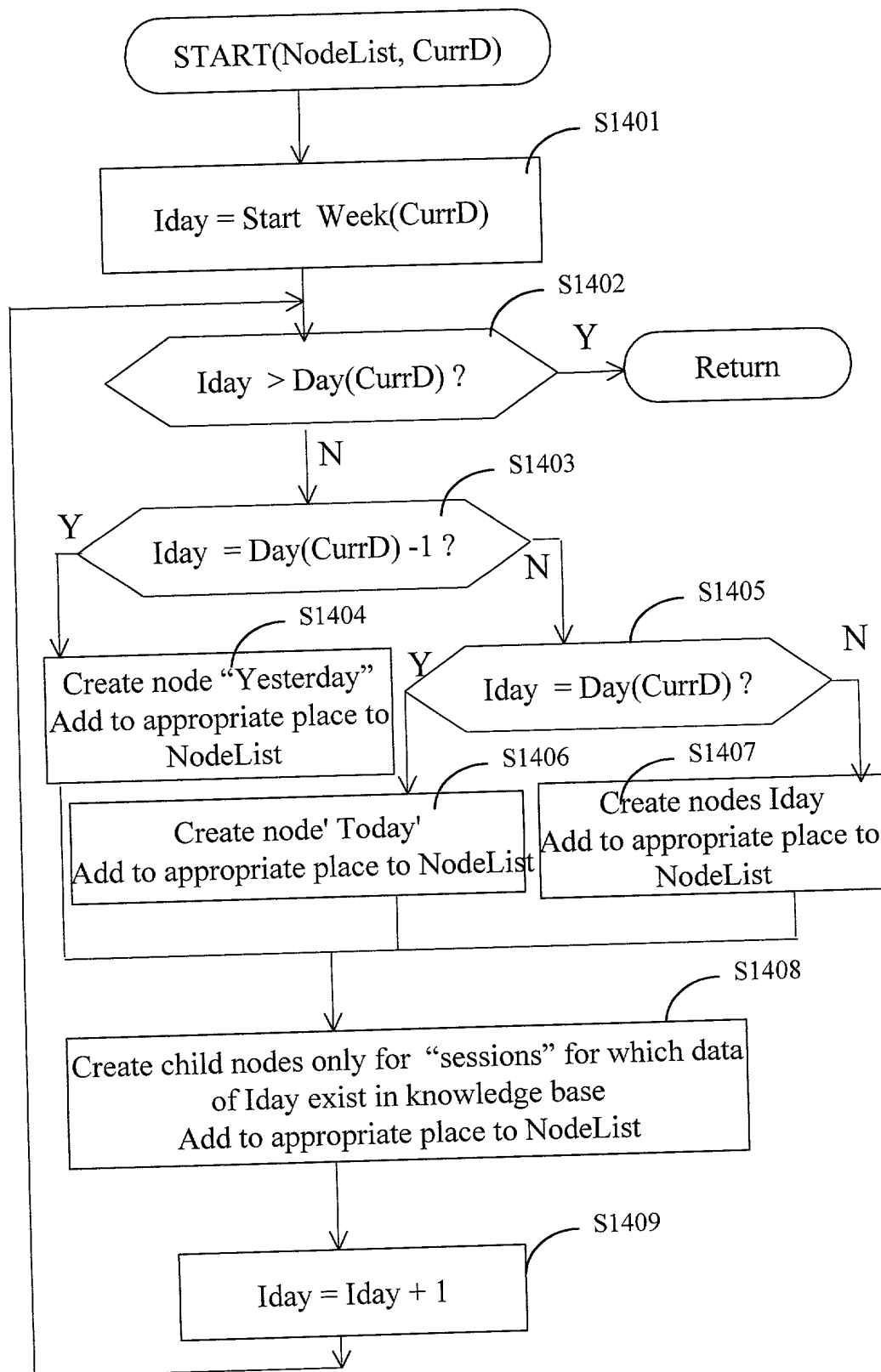


FIG. 14

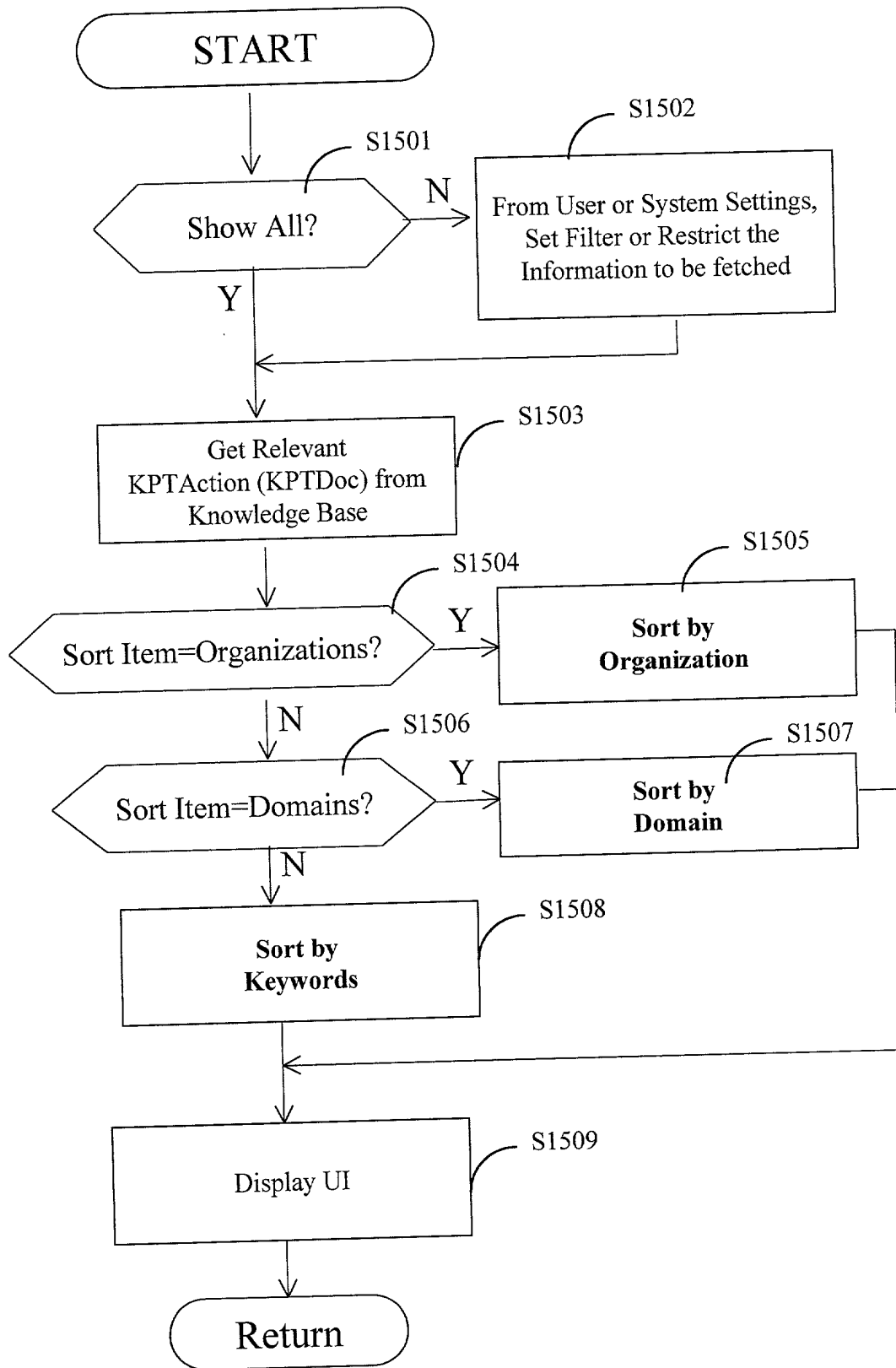


FIG. 15

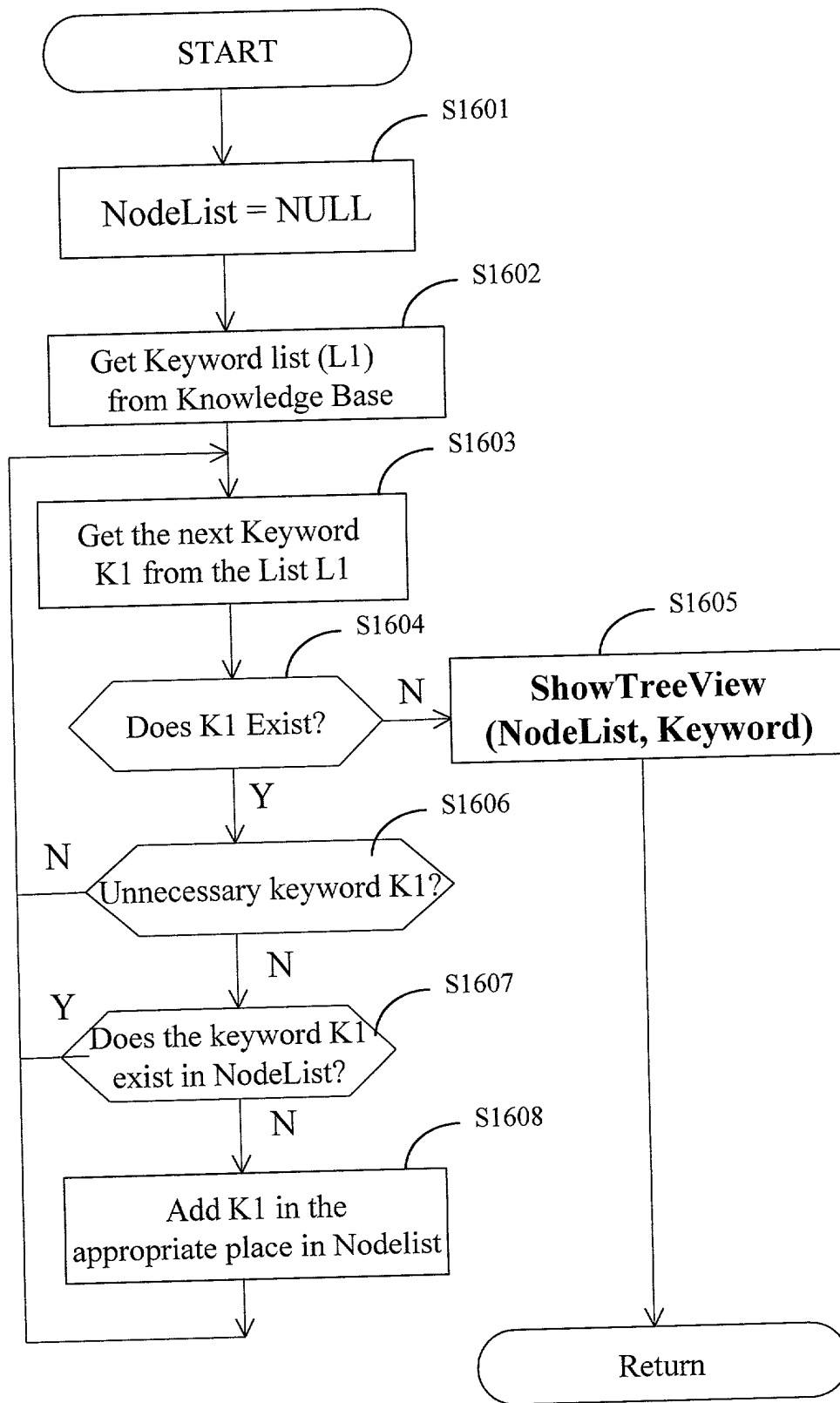


FIG. 16



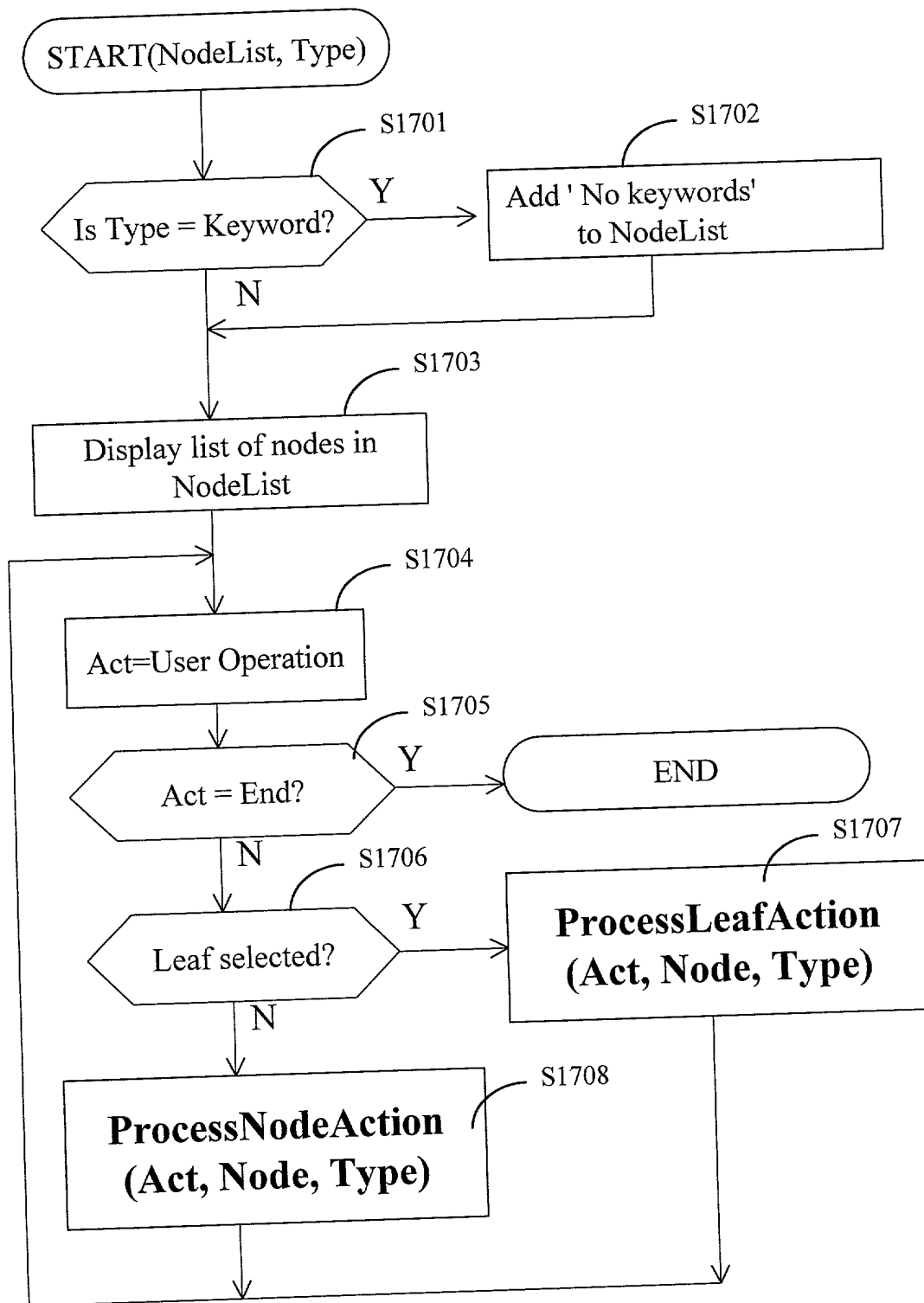


FIG. 17

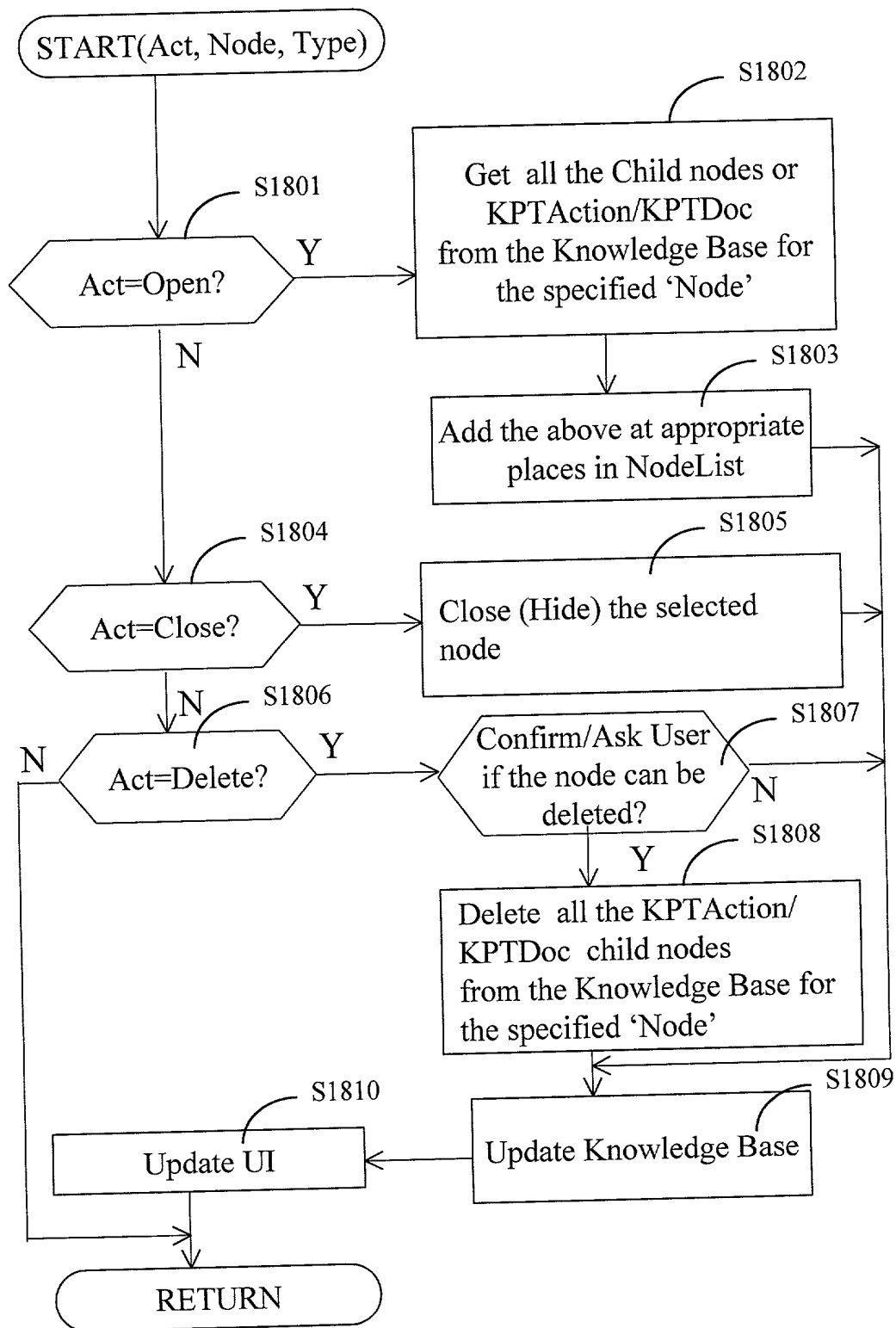


FIG. 18

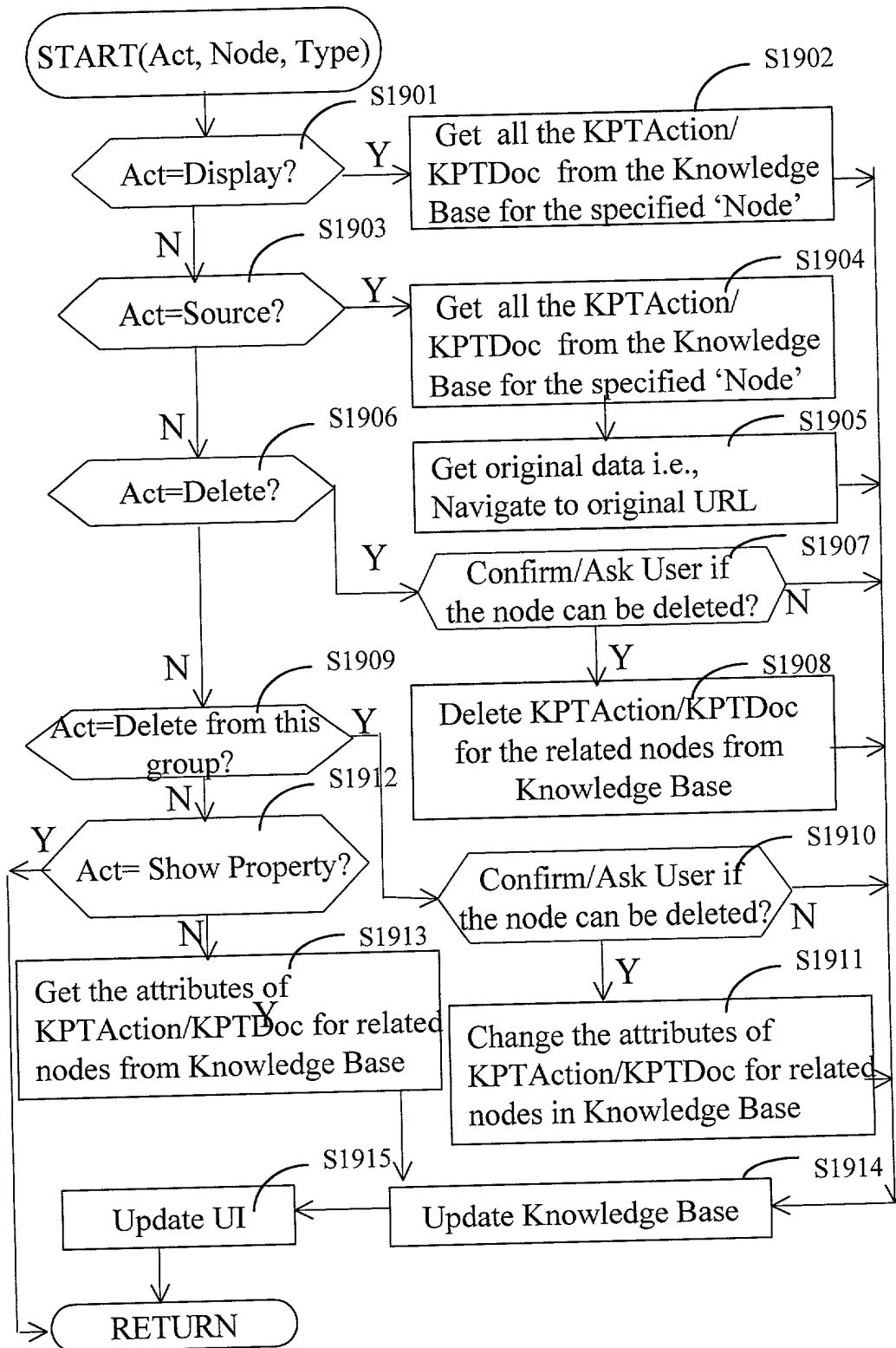


FIG. 19

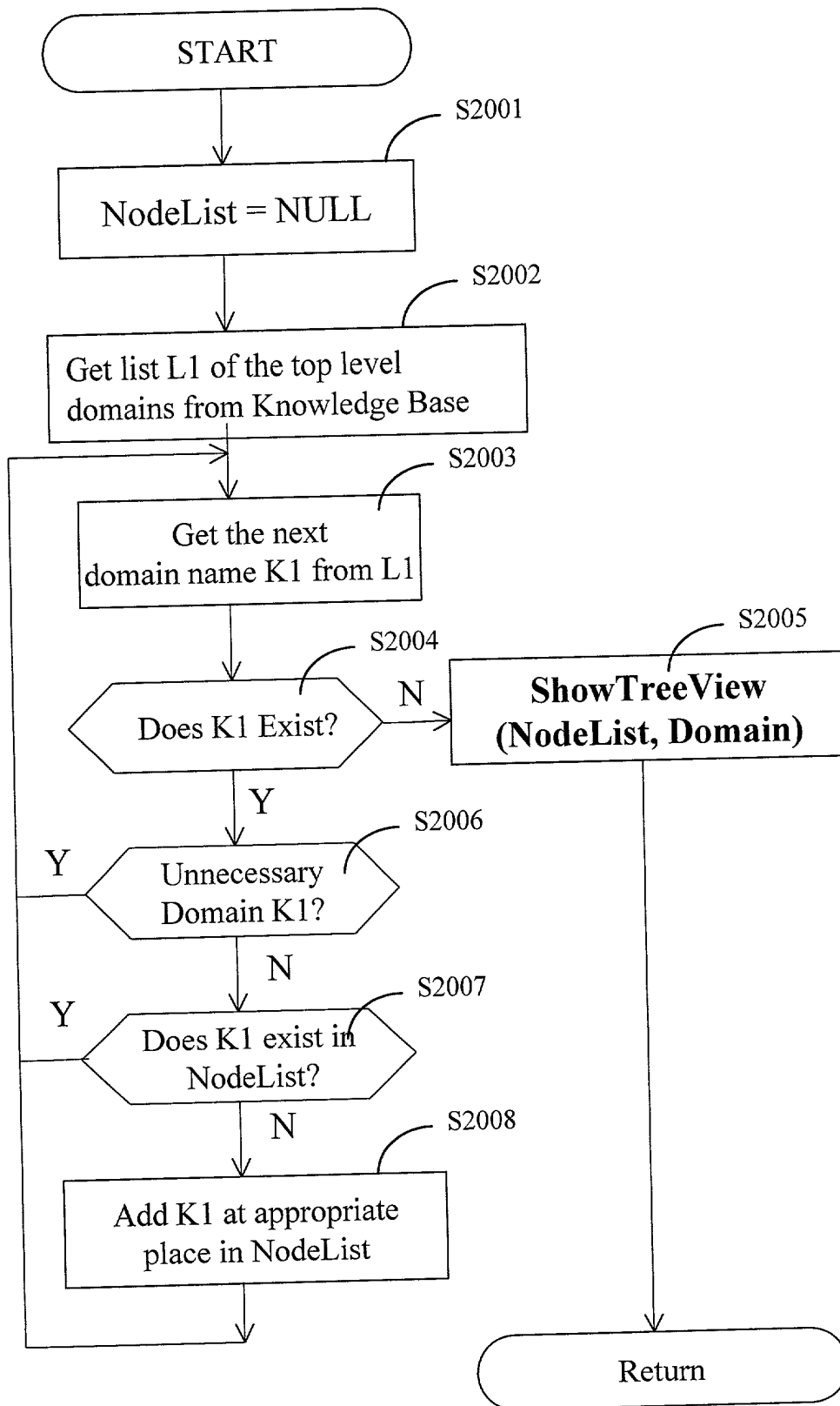


FIG. 20

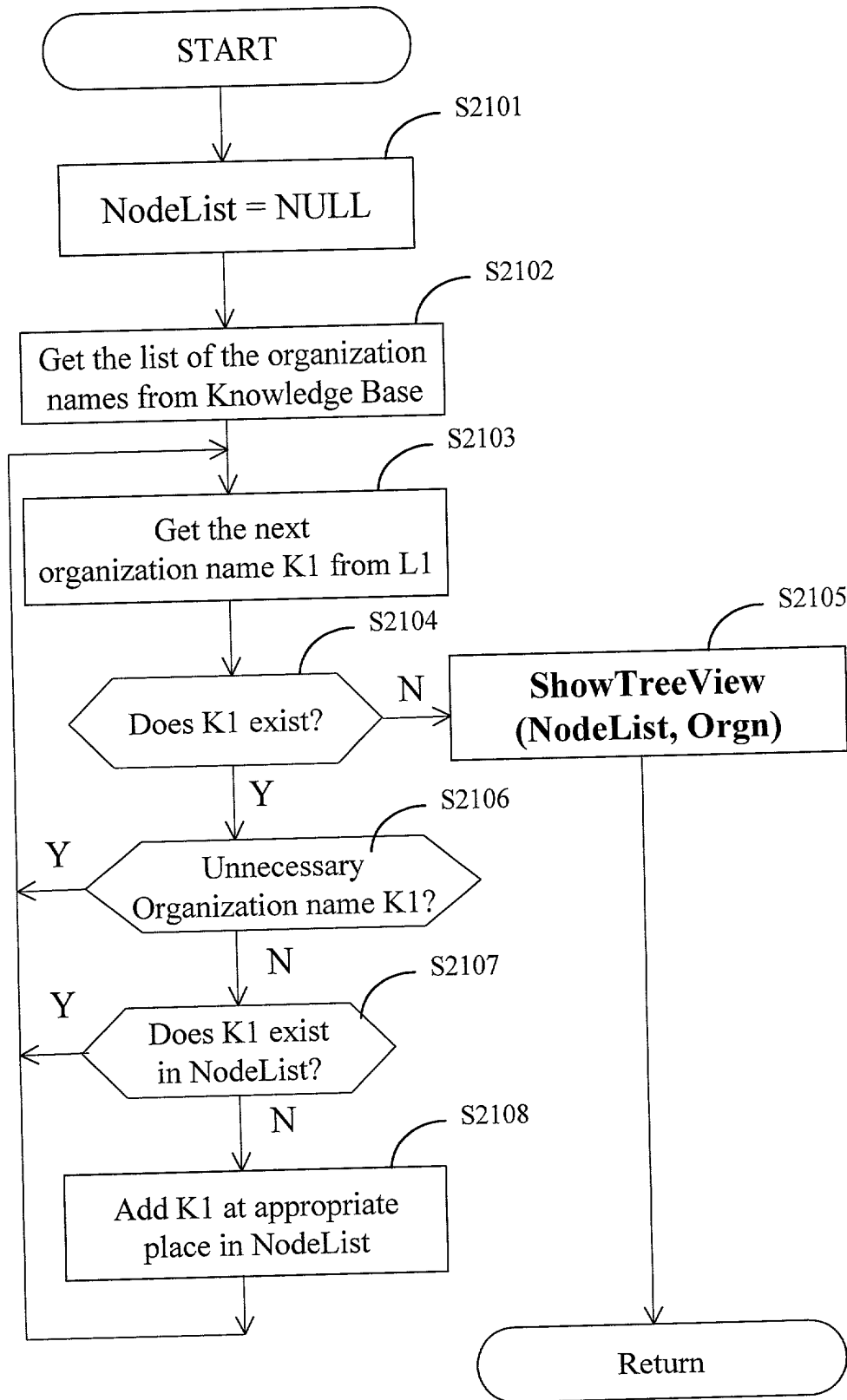


FIG. 21

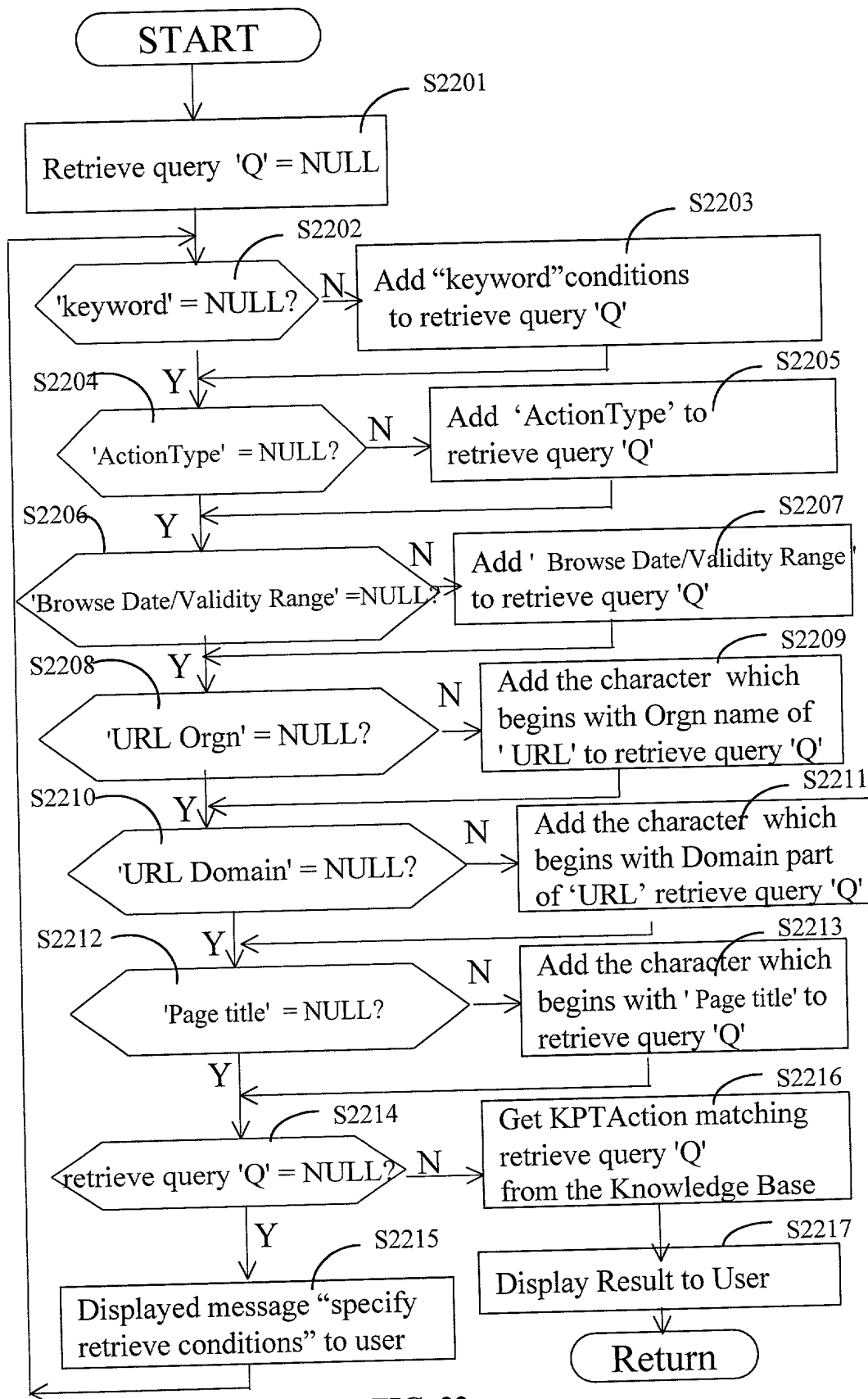


FIG. 22

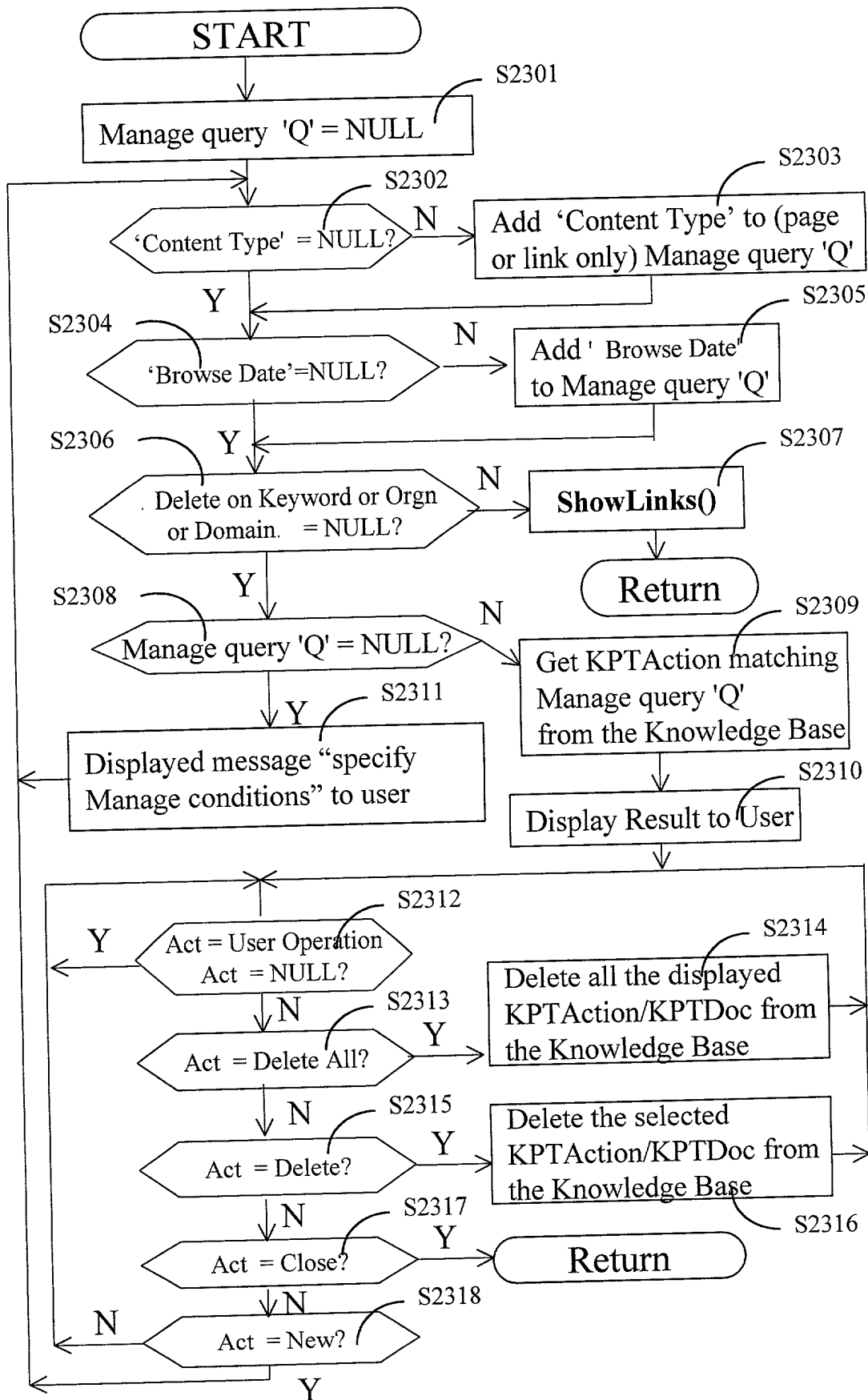


FIG. 23

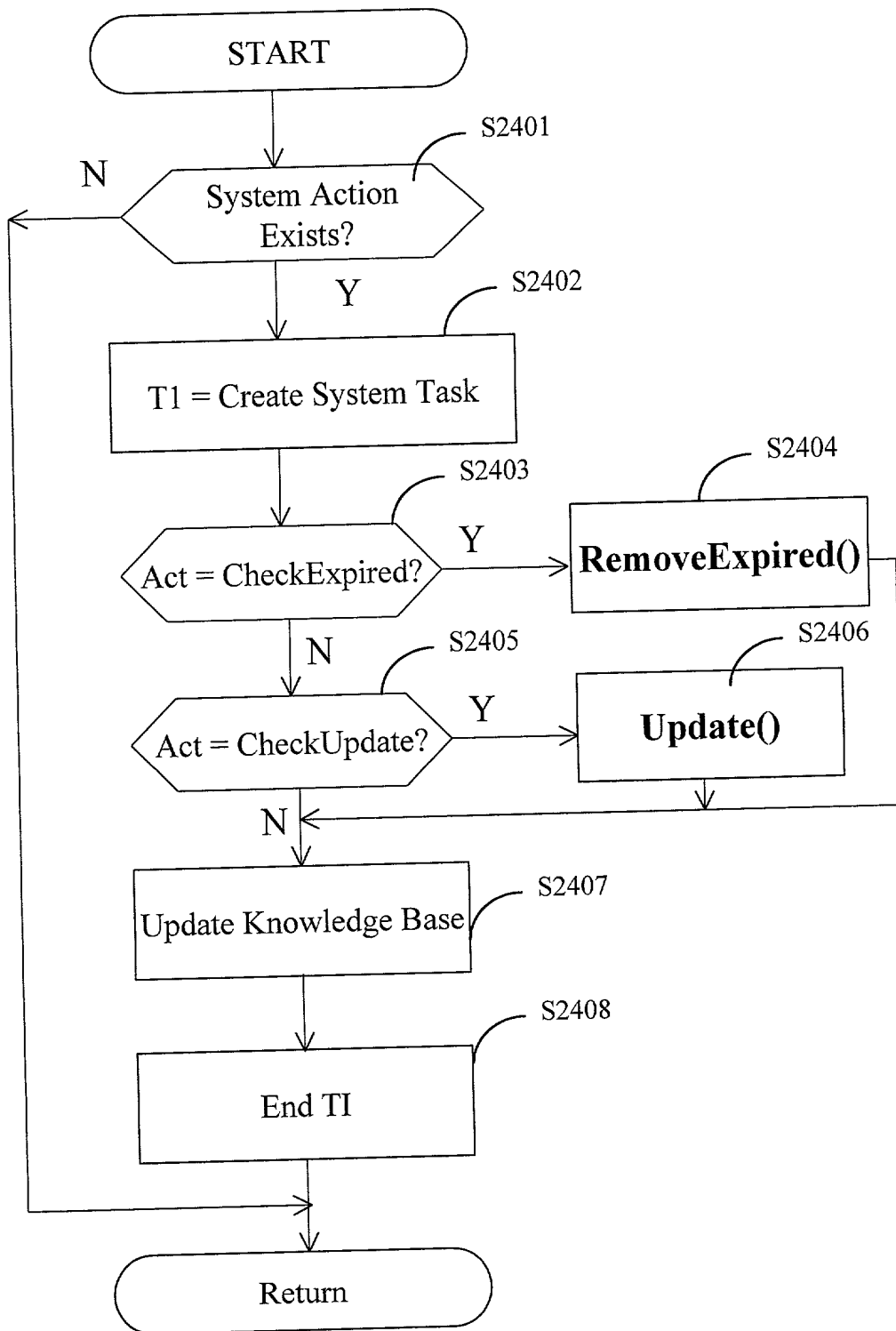


FIG. 24



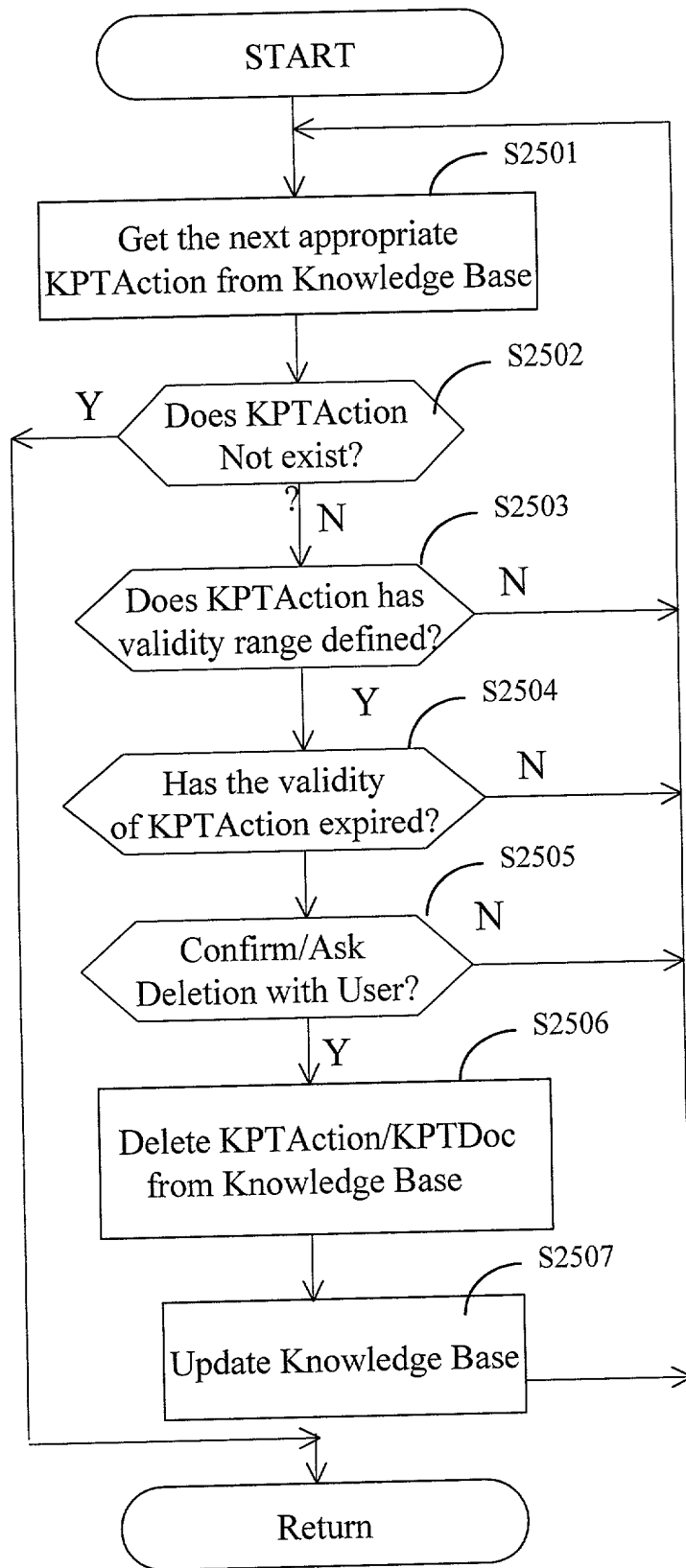


FIG. 25

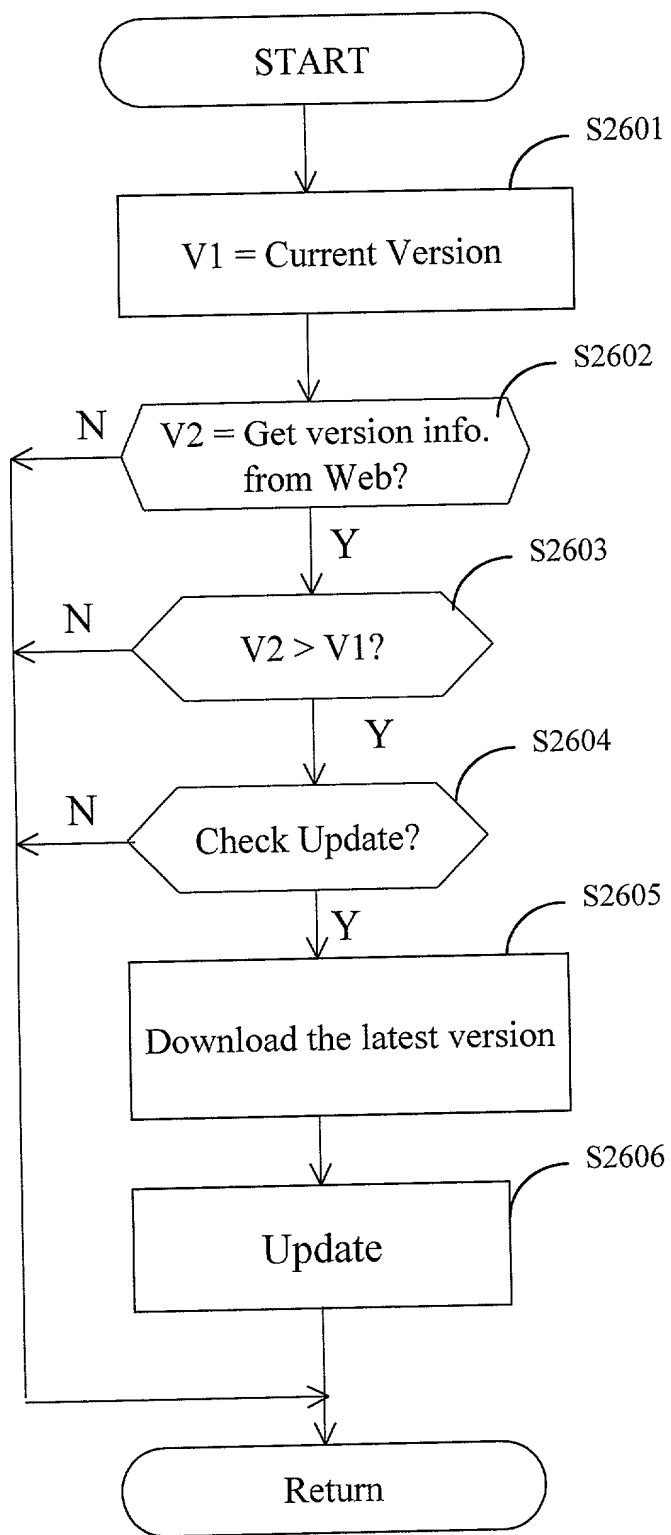


FIG. 26

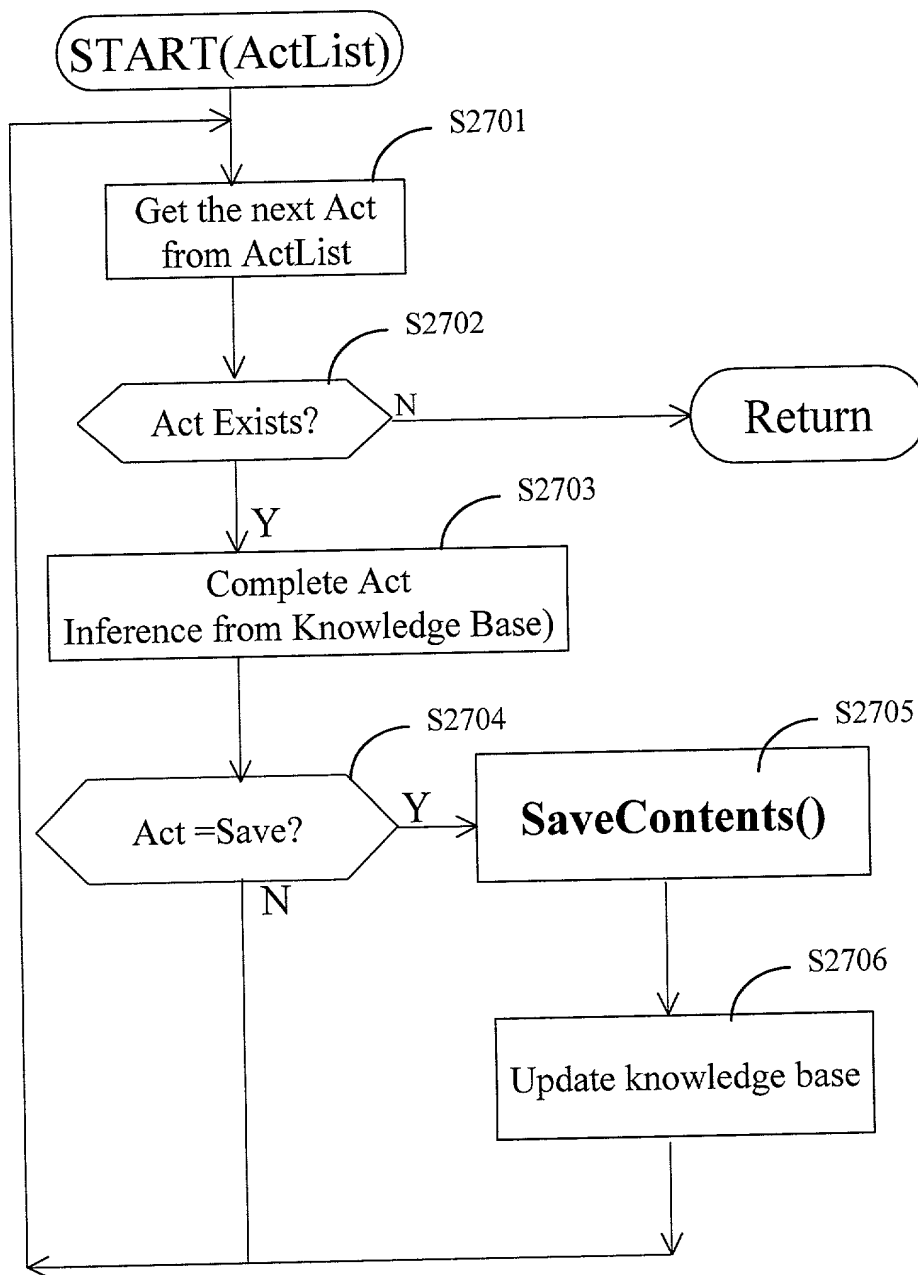


FIG. 27

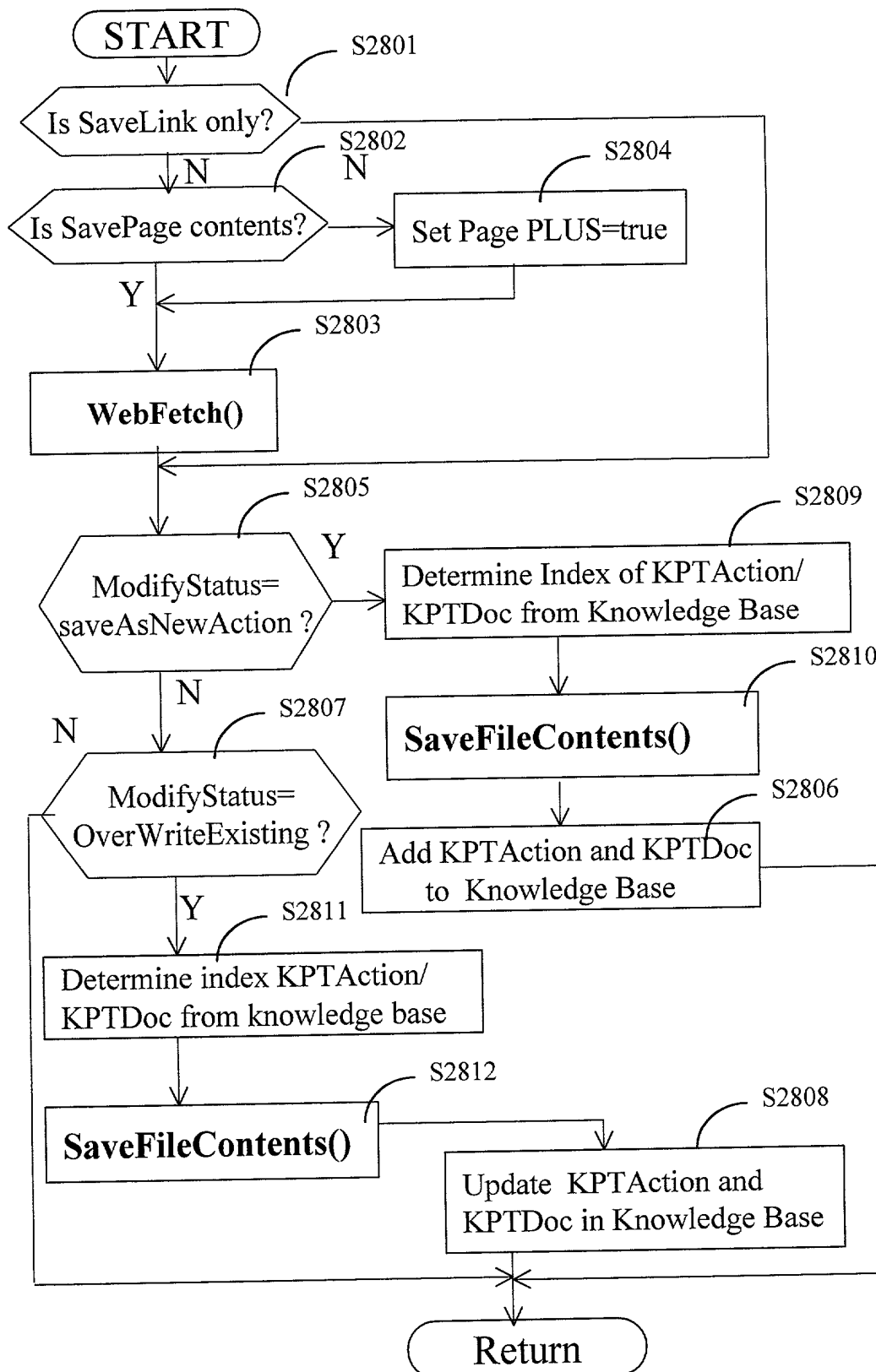


FIG. 28

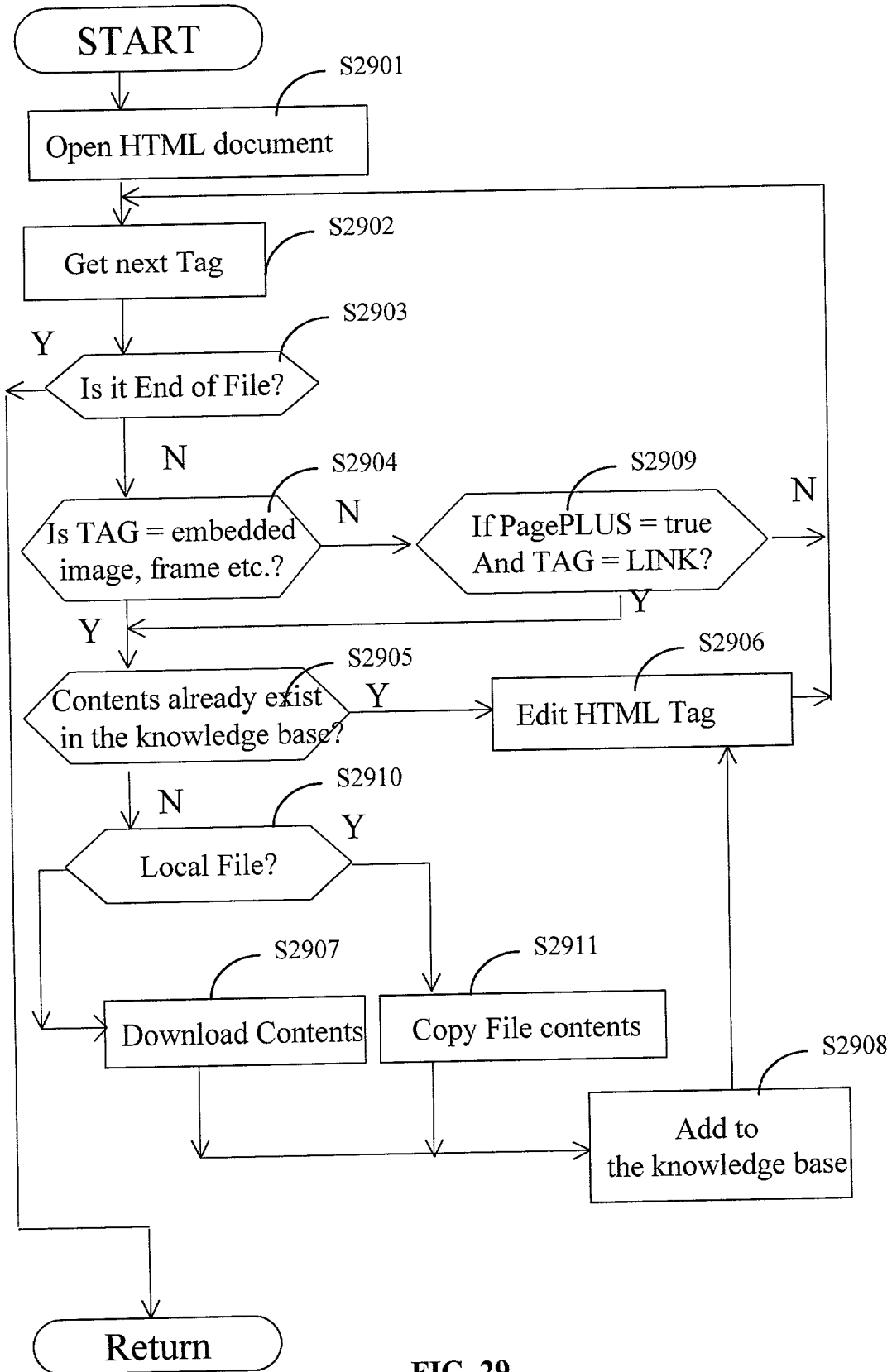


FIG. 29

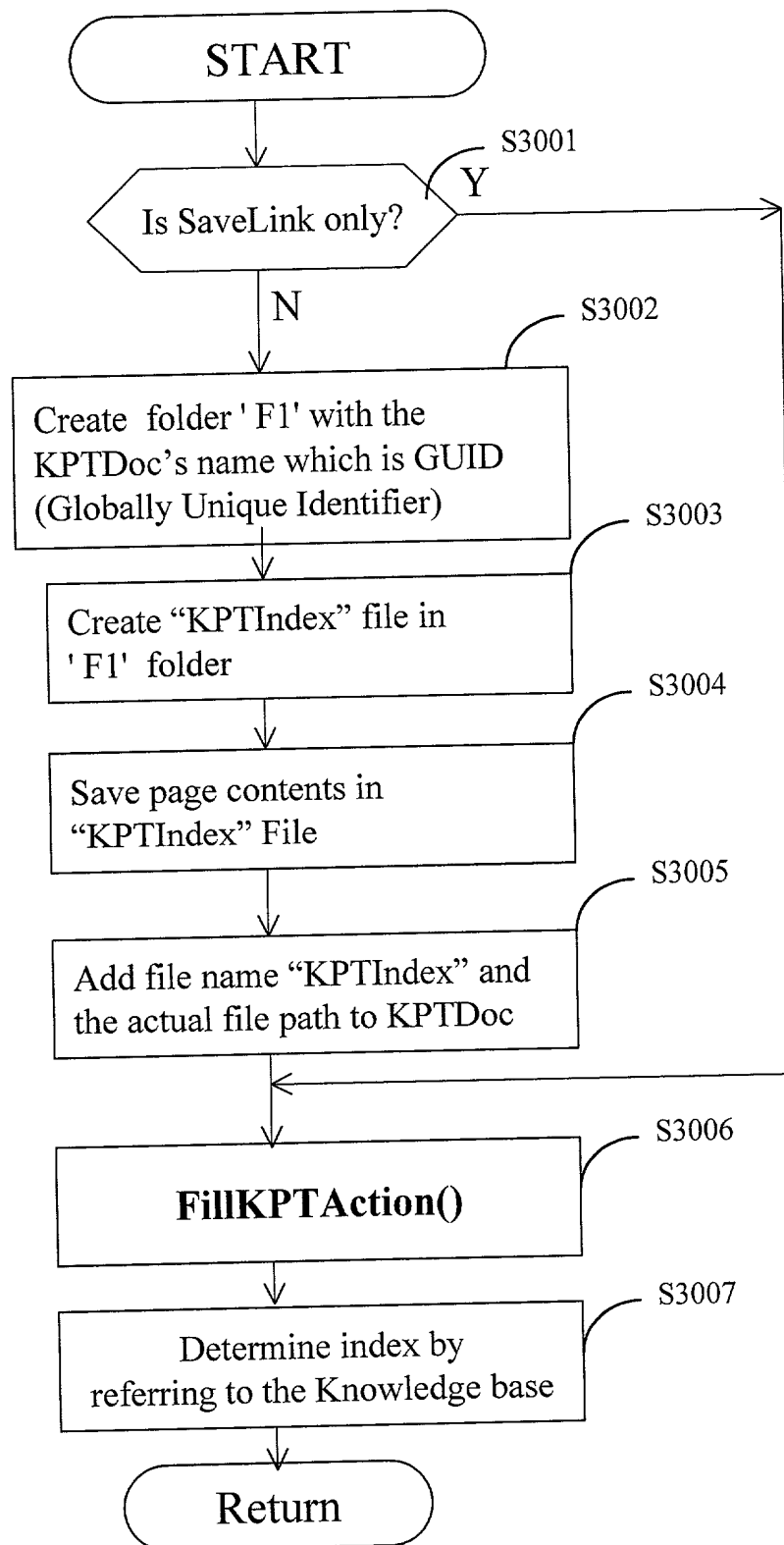
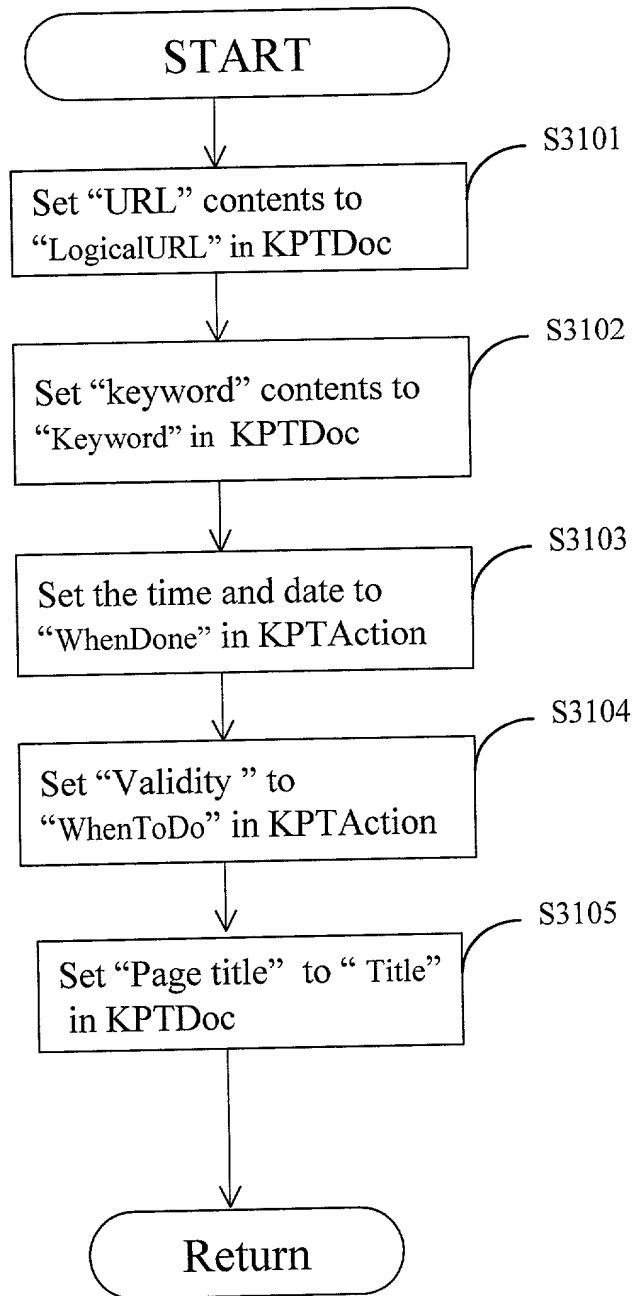
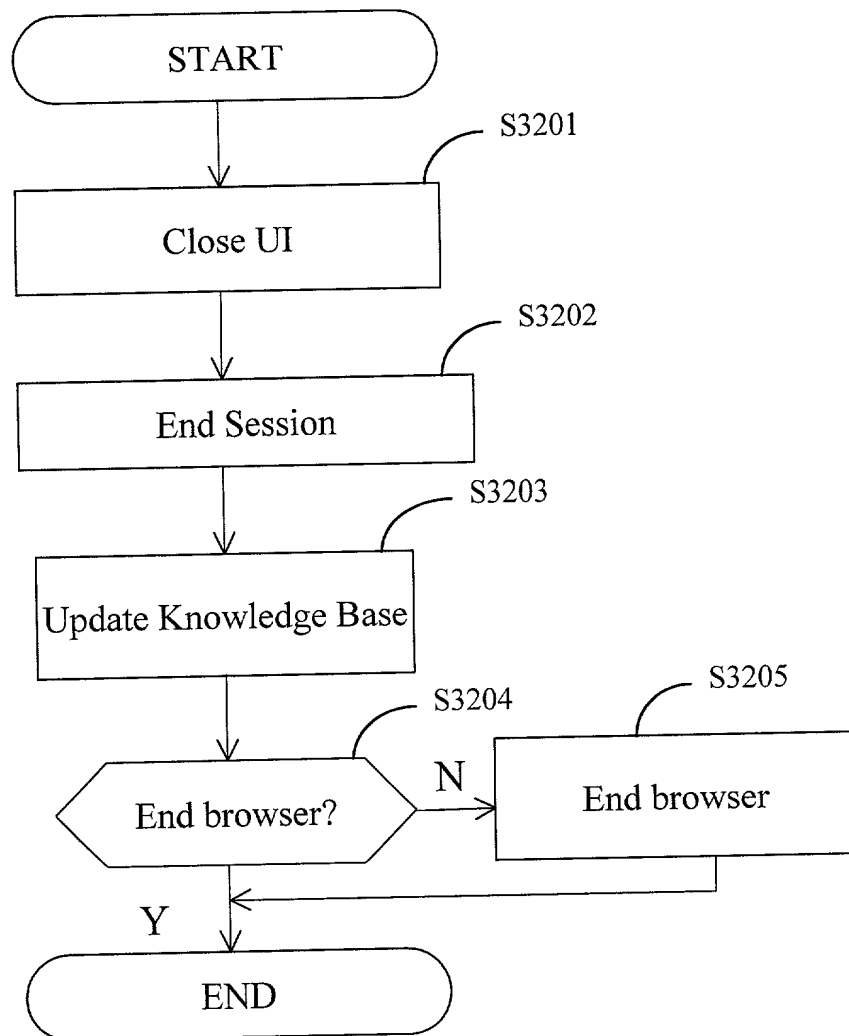


FIG. 30



**FIG. 31**



**FIG. 32**



(a)

### **KPTConcept**

```
KPTConcept
{
  ObjectID           KPTObjID
  ModifyStatus       KPTStatus
  ...
}
```

(b)

### **KPTPerson**

```
KTPerson : KPTConcept
{
  RememberAs         String
  Name               String
  Phone              String
  Email              String
  Fax                String
  URL                String
  ...
}
```

(c)

### **KPTDocument**

```
KPTDocument : KPTConcept
{
  RememberAs         String
  Name               String
  PhysicalURL         String
  LogicalURL          String
  Orgn                String
  Domain              String
  Keywords             String
  Title               String
  FolderName          String
  LinkType             KPTLinkType
  RetrievedDoc         bool
  ...
}
```

**FIG. 33**

(a)

### KPTAction

```
KPTAction : KPTConcept
{
  Type           KPTActionType
  Actor          KPTPerson
  Object         KPTConcept //Doc or Action
  From           KPTConcept
  To             KPTConcept
  How            KPTInstrumentType
  WhenToDo       KPTTime
  WhenDone       KPTTime
  ConnectedTo    KPTConnenctionList
  SessionID      KPTObjID
  ActionStatus   KPTActSysStatus
  UserStatus     KPTUsrStatus
  ActImportance  KPTImportance
  ...
}
```

(b)

### KPTContent

```
KPTContent : KPTConcept
{
  URL           String
  FileName      String
  KPTDocID      KPTObjID
  ContentType   KPTMimeType
  ContentLength long
  ...
}
```

FIG. 34

(a)

**KPTDoc Knowledge Base**

ObjectID	KeepAs	LogicalURL	Orgn	Domain	Keywords	Folder	...
D630a816	Saora	saora.co.jp	saora	JP.CO	KPT, Yoko.	D630a816	...
D630a932	KPT	kpt.com	kpt	COM	KPT	D630a932	...
D630b232		kpt.com/faq	kpt	COM			...
D233x123	Saora	saora.com	saora	COM		D233x123	...
D133f822		sales.paltek.com	paltek,sales	COM	ALTERA, ..	D133f822	...
D2340x13	HNS	sales.hns.ne.jp	hns, sales	JP.NE	Kiosk, India	D2340x13	...
...	...	...	...	...	...	...	...

(b)

**KPTAction Knowledge Base**

ObjectID	Type	KPTDocID	Done Time	SessionID	ValidTime	...
A238x231	StartSE		00/03/10 13:38:02			...
A238x123	Save	D630a816	00/03/10 13:38:22	A238x231	00/03/10~01/03/10	...
A238x232	Save	D630a932	00/03/10 14:18:42	A238x231	00/03/10~	...
A980o232	EndSE		00/03/10 14:20:15			...
A909u898	StartSE		00/04/19 12:12:00			...
A323f229	Save	D630b232	00/04/19 12:22:13	A909u898	00/04/25~00/04/30	...
A902o230	EndSE		00/04/19 14:12:23			...
A721n292	StartSE		00/04/19 12:12:00			...
A723b232	Save	D630a816	00/04/19 12:12:23	A721n292		...
...	...	...	...	...	...	...

**FIG. 35**

(a)

**KPTPerson Knowledge Base**

ObjectID	KeepAs	Name	Email	Phone	Extracted	...
P324o902	Saora	Saora Inc.	support@saora.co...	04591398	saora.co...	...
P421y232	Kato	Nihon Kato	kato@saora.com			...
P234x234		HNS Inc.	siva@hns.com		hnsonie.com	...
...	...	...	...	...	...	...
						...
						...
						...

(b)

**KPTContent Knowledge Base**

ObjectID	URL	Filename	KPTDocID	Content Type	ContLen	...
F232j233	saora.co.jp/logo.gif	logo.gif	D630a816	IMAGE/GIF	212	...
F802u233	saora.co.jp/jap.gif	jap.gif	D630a816	IMAGE/GIF	128	...
F232q897	kpt.com/img/logo.gif	logo1.gif	D630a932	IMAGE/GIF	232	...
F329x800	kpt.com/music/a.mid	a.mid	D630a932	MIME/MIDI	987	...
...	...	...	...	...	...	...
						...
						...

**FIG. 36**

## Domain Knowledge Base

# Generic Domains	
.com,	.COM (Commercial Domains)
.edu,	.EDU (Educational Domains)
.gov,	US Government
.mil,	US Dept of Defense
.net,	.NET (Network Domains)
.org,	.ORG (Organization Domains)
# Country Code Domains	
.ac,	Ascension Island
.ad,	Andorra
.ae,	United Arab Emirates
.af,	Afghanistan
.ag,	Antigua and Barbuda
.ai,	Anguilla
.al,	Albania
.aq,	Antarctica
.jp	Japan
.ad.jp,	Administrative
.ac.jp,	Universities
.co.jp,	Commercial Organizations
.go.jp,	Government Organizations
.or.jp,	Non Commercial Organizations
.ne.jp,	ISP
.ru	Russia
.ac.ru,	Academic Community
.com.ru,	Commercial Organizations
.edu.ru,	Universities
.int.ru,	For public registration
.mil.ru,	Military Establishment
.net.ru,	Internet Service Providers
.org.ru,	Non Commercial Organizations
.pp.ru,	Private Person' s domain
...	

FIG. 37

### **Example Rules for Determining the Organization Indices for an URL**

For the Given Input URL,

- Get the fully qualified URL and remove the parameters  
e.g., Input: `http://www.saora.co.jp/contact.asp?userid=2323`  
Output: `http://www.saora.co.jp/contact.asp`
- Remove the protocol , like `http://`, `https://`, `ftp://` from the URL  
e.g., Input: `http://www.saora.co.jp/contact.asp`  
Output: `www.saora.co.jp/contact.asp`
- Remove the obvious address e.g., `www`, `www2`, etc. from the URL  
e.g., Input: `www.sales.saora.co.jp/contact.asp`  
Output: `sales.saora.co.jp/contact.asp`
- Remove the page information from the URL  
e.g., Input: `sales.saora.co.jp/contact.asp`  
Output: `sales.saora.co.jp`
- Get the domain information from the Domain Knowledgebase and Strip the domain information from the URL and get the organizations  
e.g., Input: `sales.saora.co.jp`  
Output: Organization(s) are - > sales, saora

**FIG. 38**

## Example Rules for Determining the Domain Indices for an URL

For the Given Input URL,

- Get the fully qualified URL and remove the parameters  
e.g., Input: `http://www.saora.co.jp/contact.asp?userid=2323`  
Output: `http://www.saora.co.jp/contact.asp`
- Remove the protocol , like `http://`, `https://`, `ftp://` from the URL  
e.g., Input: `http://www.saora.co.jp/contact.asp`  
Output: `www.saora.co.jp/contact.asp`
- Remove the obvious address e.g., `www`, `www2`, etc. from the URL  
e.g., Input: `www.sales.saora.co.jp/contact.asp`  
Output: `sales.saora.co.jp/contact.asp`
- Remove the page information from the URL  
e.g., Input: `sales.saora.co.jp/contact.asp`  
Output: `sales.saora.co.jp`
- Get the domain information from the Domain Knowledgebase  
e.g., Input: `sales.saora.co.jp`  
Output: Domain is `.co.jp`

FIG. 39

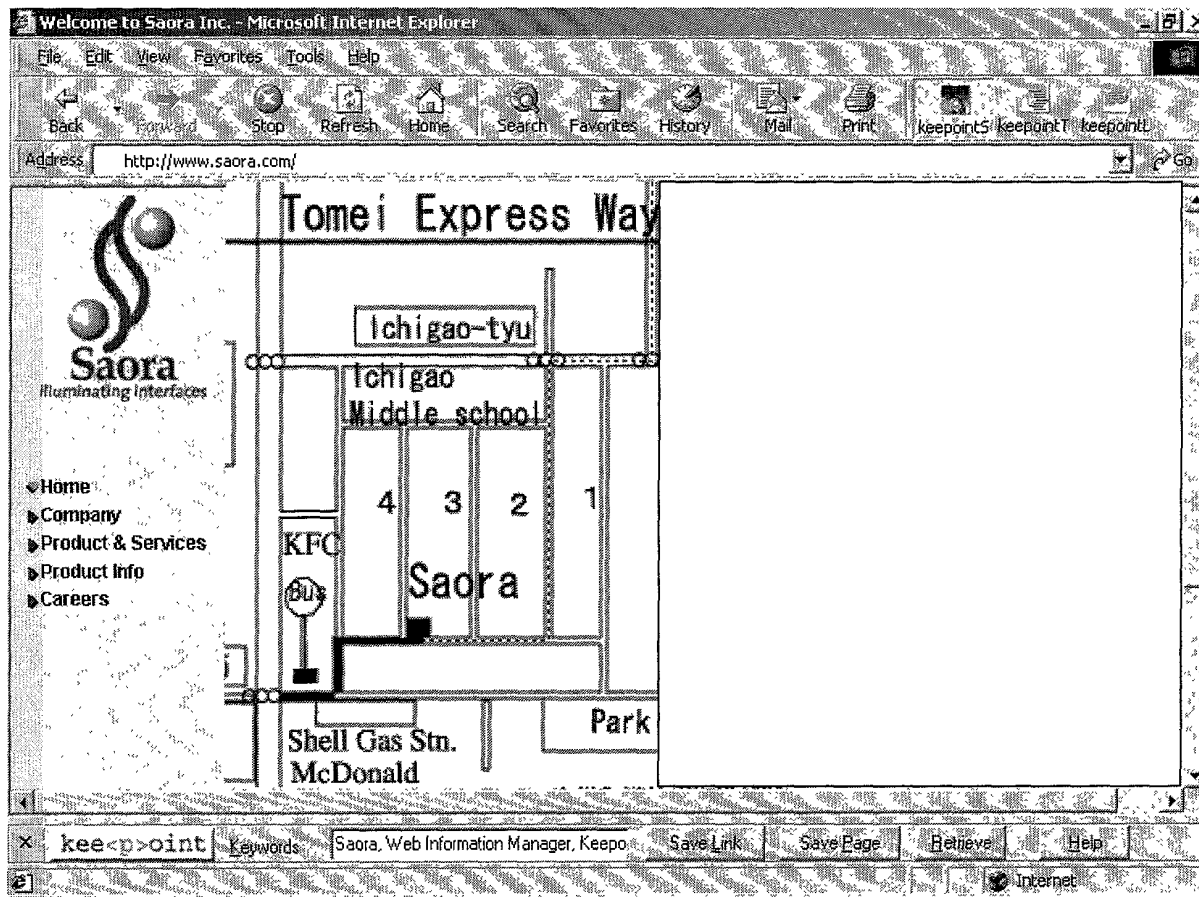


FIG. 40



```

<html><head>
<title>Welcome to Saora Inc.</title>
<meta name="KEYWORD" content="Saora, Web Information">
<meta http-equiv="Content-Type" content="text/html; charset=x-sjis">
</head>
<body bgcolor="#FFFFCC">
<table border="0" cellpadding="0" cellspacing="0" align="center"
width="906"> <tr>
  <td width="114" valign="top" align="center" height="24"
rowspan="6"> </td></tr>
  <tr>
    <td width="828" valign="top" colspan="4" height="2">
      
    </tr>
  <tr>
    <td width="44" valign="top" height="2"><font color="#400040">
      <strong><big>Train</big></strong></font></td>
    <td width="573" valign="top" height="2"><ul>
      <li><font color="#0000FF">Tokyu Den-en Toshi Line ICHIGAO
Station</font></li>
      <li><font color="#0000FF">Take Bus Nos. 305, 306 Izumita
Mukai (1 Minute) OR 20 Minutes Walk from the Station</font></li>
    </ul></td>
    <td width="200" valign="top" height="2"></td>
    <td width="11" valign="top" height="2"></td></tr>
  <tr><td width="44" valign="top" height="2">
    <font color="#400040"><ul>
      <p>045-913-9820</p>
    </ul></td>
    <td width="200" valign="top" height="2"></td>
    <td width="11" valign="top" height="2"></td></tr>
  <tr><td width="44" valign="top" height="2">
    <font color="#400040"></td>
    <td width="573" valign="top" height="2"><ul>
      <font color="#0000FF"><p>045-913-9821</p>
    </ul>
    <td width="200" valign="top" height="2"></td>
    <td width="11" valign="top" height="2"></td></tr>...
</table>

```

FIG. 41

```

<html><head>
<title>Welcome to Saora Inc.</title>
<meta name="KEYWORD" content="Saora, Web Information ">
<meta http-equiv="Content-Type" content="text/html; charset=x-sjis">
</head>
<body bgcolor="#FFFFCC">
<table border="0" cellpadding="0" cellspacing="0" align="center"
width="906"><tr>
  <td width="114" valign="top" align="center" height="24"
  rowspan="6">    
</td>
</tr>
<tr>
<td width="828" valign="top" colspan="4" height="2">
  
</tr>
<tr>
  <td width="44" valign="top" height="2"><font color="#400040">
  <strong><big>Train</big></strong></font></td>
  <td width="573" valign="top" height="2"><ul>
    <li><font color="#0000FF">Tokyu Den-en Toshi Line ICHIGAO
Station</font></li>
    <li><font color="#0000FF">Take Bus Nos. 305, 306 Izumita
Mukai (1 Minute)
    OR 20 Minutes Walk from the Station</font>  </li></ul></td>
  <td width="200" valign="top" height="2"></td>
  <td width="11" valign="top" height="2"></td></tr>
<tr><td width="44" valign="top" height="2"><font color="#400040">
<ul><font color="#0000FF"><p>045-913-9820</p></font> </p></ul>
</td>  <td width="200" valign="top" height="2"></td>
  <td width="11" valign="top" height="2"></td></tr>
<tr>
  <td width="44" valign="top" height="2"><font color="#400040">
</font></td>
  <td width="573" valign="top" height="2"><ul>
    <font color="#0000FF"><p>045-913-9821</p></font> </p> </ul>
</td>  <td width="200" valign="top" height="2"></td>
  <td width="11" valign="top" height="2"></td></tr>...
</table>

```

FIG. 42

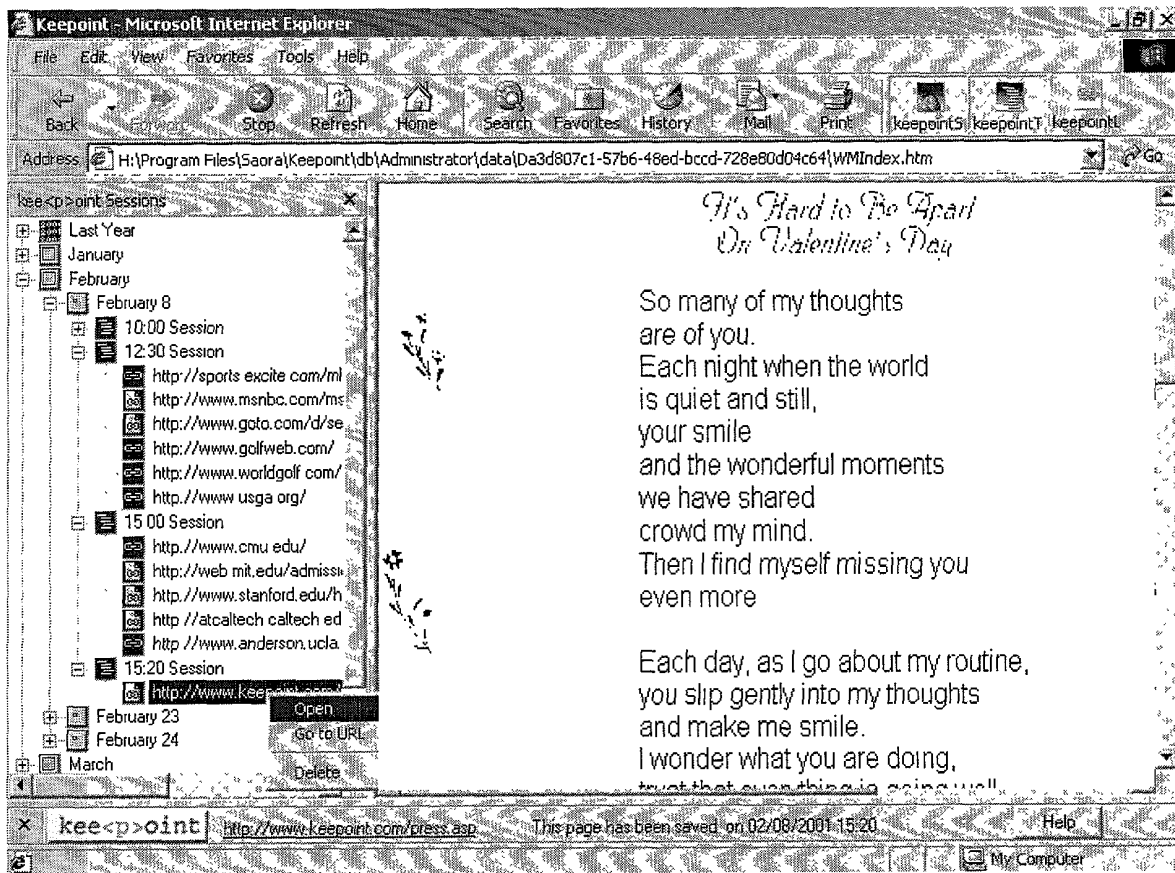


FIG. 43

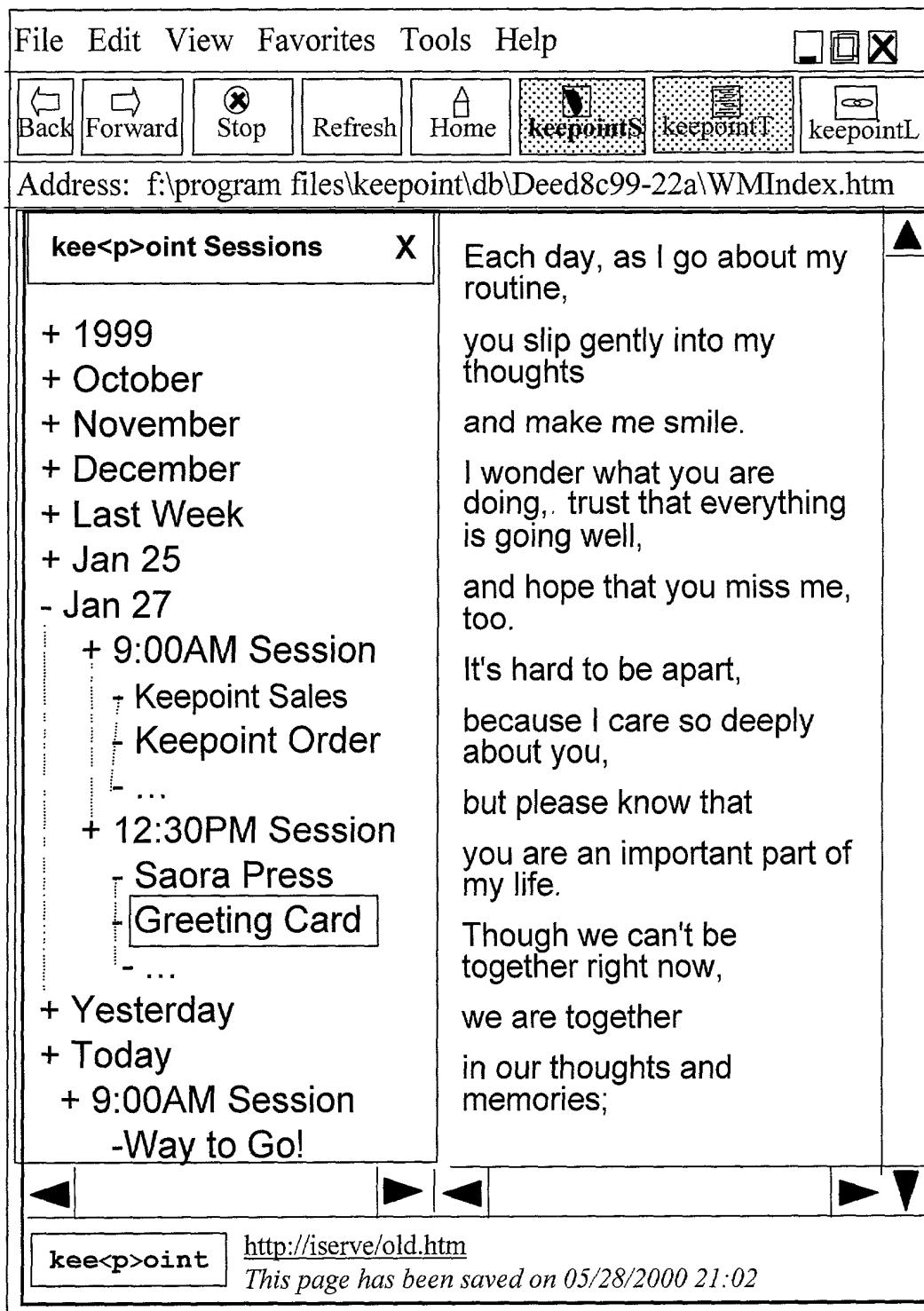


FIG. 44

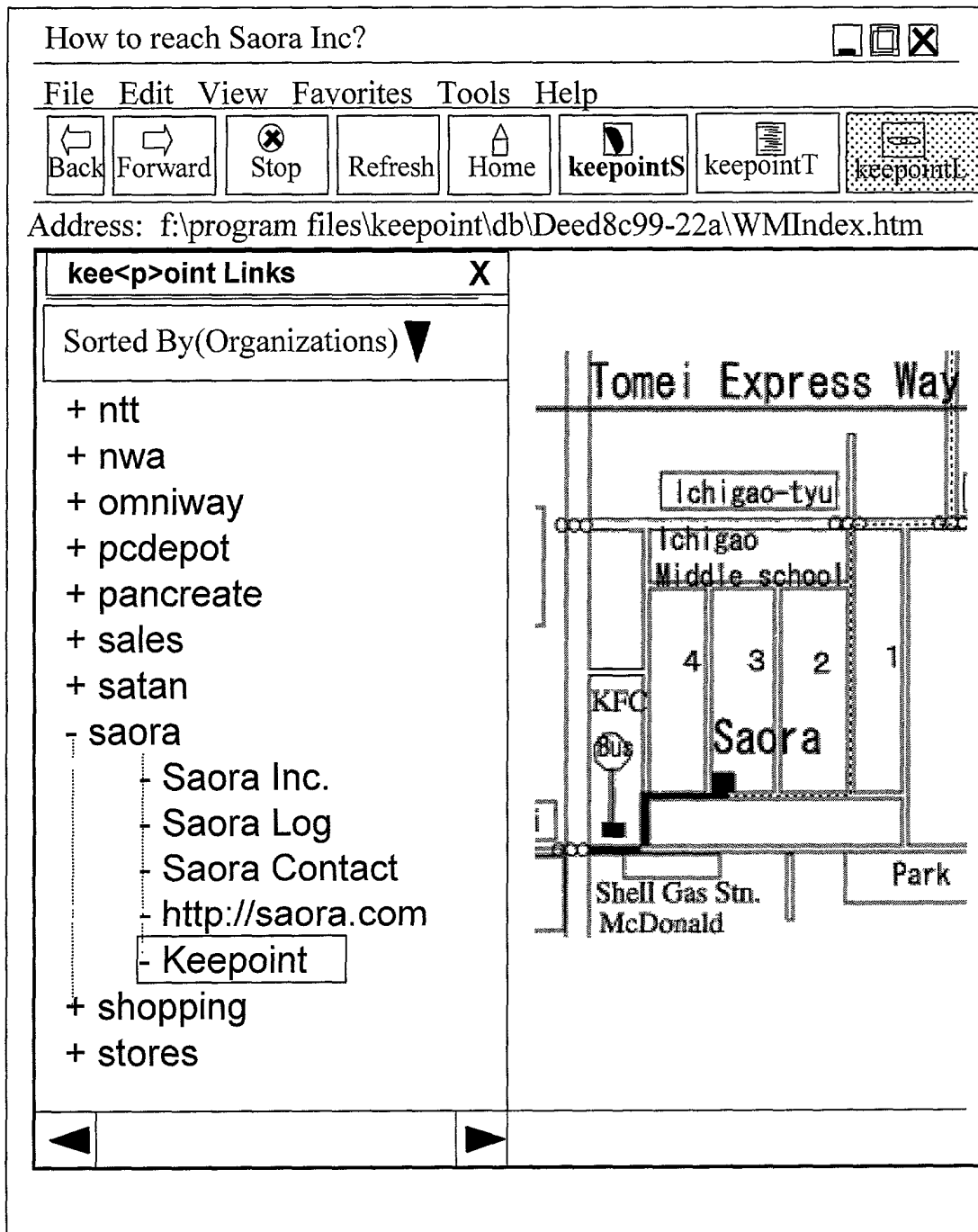


FIG. 45

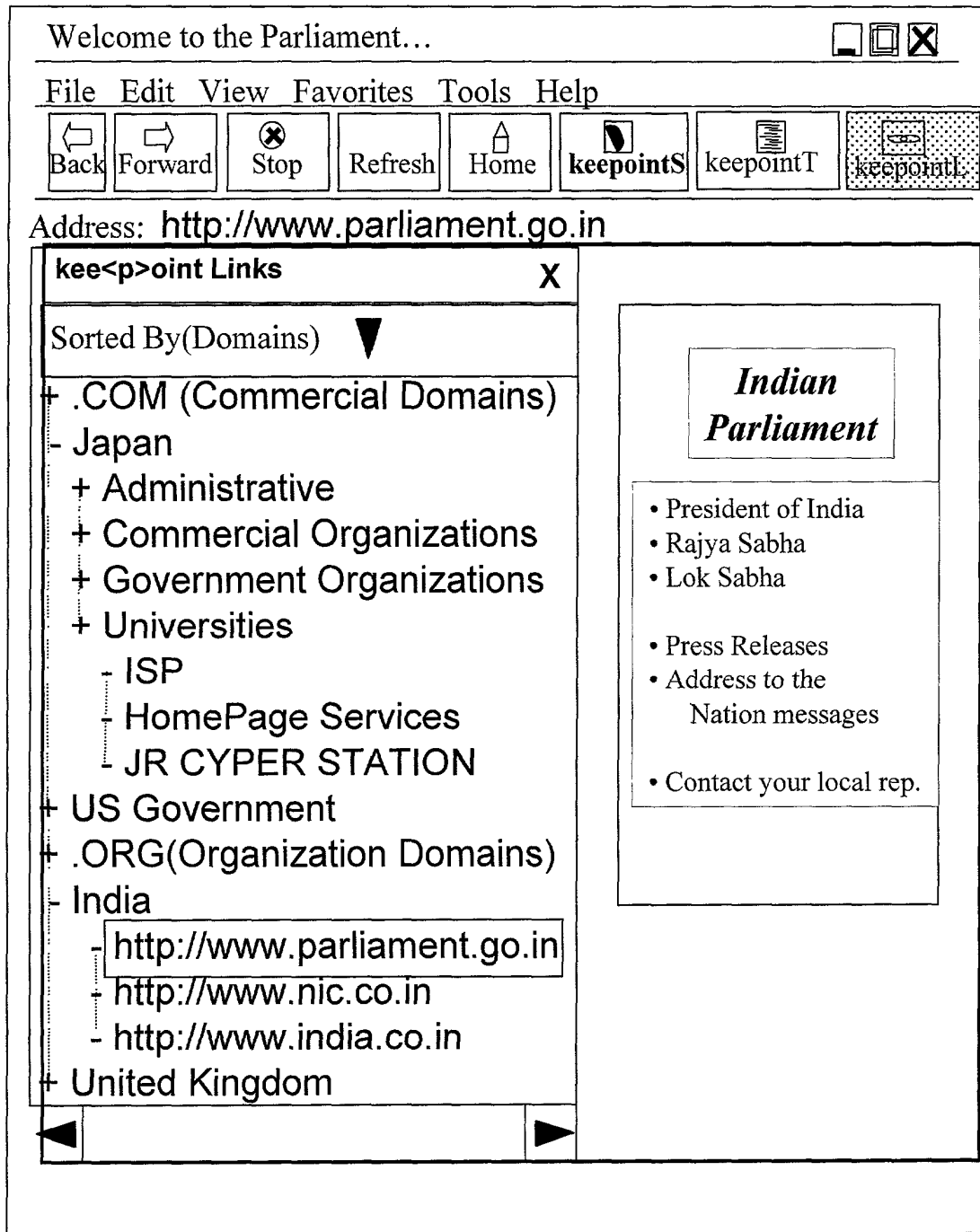


FIG. 46

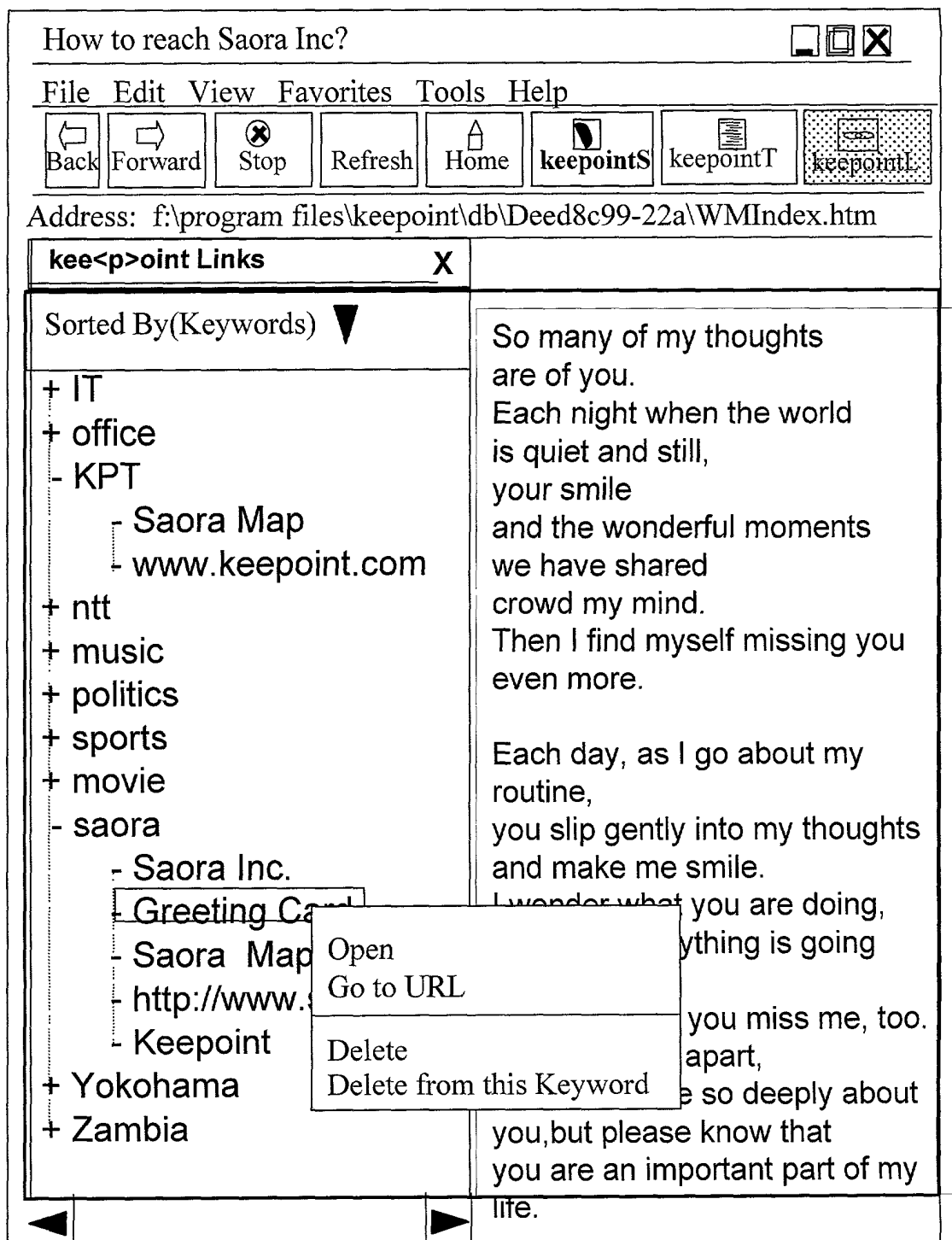


FIG. 47

Find Pages & Links

FileViewHelp

Please specify the search constraints

Which

I browsed

☐ between
 

2/20/00

▼

&

2/20/01

▼

☒ During the previous
 

1 month

▼

With attributes:

Has 'Keywords':

▼

Whose 'URL' contains:

▼

Whose 'URL' domain is:

▼

Whose 'Title' starts with:

▼

Search for:

☐ Pages with content only
 ☒ All

Find Now

Stop

New

Close

Delete




Help

55 Entries(s) found

URL	Action	Performed On
http://www.yahoo.com	Saved	02/03/00
http://www.saora.com	Saved	02/04/00
http://iserve/old/map.htm	Saved	05/28/00
http://www.msn.com	Saved	02/08/00

FIG. 48



Page Details   

Title:

Keywords:

URL:

This page has been saved till 4/20/2001 on 6/20/200 20:06

---

FIG. 49

Manage Pages & Links

File

View

Help

Please specify the search constraints

Delete the ☒ Pages or ☐ Pages & Links saved by me

☐ Before 2/20/00 ▼

☐ After 2/20/01 ▼

☐ between 2/20/00 ▼ & 2/20/01 ▼

☒ During the previous 1 month ▼

Delete on Keywords, Orgn or Domain

For deleting pages or links based on thse, Use the KeepointL Screen

Take me there

Show

Stop

New

Close

Delete All

Help

4 Entries(s) found

URL	Action	Performed On
http://www.yahoo.com	Saved	02/03/00
http://www.saora.com	Saved	02/04/00
http://iserve/old/map.htm	Saved	05/28/00
http://www.msn.com	Saved	02/08/00

FIG. 50

User Settings

File View Help

User Information Program Options

Full Name: Administrator

Email: Admin@saora.co.jp

Phone: 045-913-9820

Fax: 045-913-9821

Address:

Register Now

OK Cancel Apply Help

FIG. 51

User Settings

File View Help

User Info Program Options

Update Check

Frequency of check: Once a month ▼ Check now

Import

Import Favorites from Internet Explorer Import

Data File Path

Current path is F:\Program Files\  
Saora\Keepoint\db\ Change

OK Cancel Apply Help

FIG. 52

User Settings □ □ ×

File View Help

User Info Program Options

While Saving an Existing URL or Page:

☐ Do not ask and always ☒ Overwrite ☐ Save as New

Display Keywords in Main Window:

☒ Yes

OK Cancel Apply Help

FIG. 53